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WALLACES' FARMER AND Iowa Homestead

Good Farming *Clear Thinking* *Right Living*

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Iowa State Fair

August 26 Thru September 2

AUGUST 6, 1949

IOWA'S LEADING FARM NEWSPAPER

For Economy • For Long-Life • and Plenty of Power

You, as a progressive farmer, invest wisely in your machinery purchases . carefully select the most practical equipment for your particular needs . . *modern* machinery that will *serve you economically!* In this respect you are like the thousands of farmer-businessmen who appreciate these features of the MM VISIONLINED 'R' TRACTOR: Super turbulence pistons, forced-feed lubrication, cylinder blocks cast in pairs, one hundred and fifty fewer parts than in most conventional valve-in-head engines and the easy accessibility for the minor servicing required.

The MM Model 'R' is a 2 plow tractor under almost all conditions. The 'R' offers quality, heavy-duty construction features ordinarily found only in larger equipment. The rugged, webbed transmission case and the one-piece crankcase and base pan form a solid frame that maintains proper alignment . . . assures *long-life dependability!* Rear wheels are clamped and keyed on live rear axle and may be adjusted to give 52 to 84 inch tread. Four front-end types adapt the Model 'R' to all farm tractor tasks. All 'R' tractors are VISIONLINED for better vision, greater comfort and added safety.

There's plenty of power . . four kinds of smooth, responsive power! . . . hydraulic lift, power take-off, 20.7 H. P. on drawbar and 24 H. P. on belt. Variable speed governor and four forward speeds provide the *right* power for every job. Remember that it is better to have enough power, and even a little extra power, than to have not quite enough power. The Model 'R' is the team mate for MM's famous HARVESTOR, HUSKOR, side-mounted and pull-behind Mowers, Plows, Discs, The Bale-O-Matic and MM's dollar-saving QUICK-ON—QUICK-OFF planting and cultivating attachments.

Demand greater economy, longer-life dependability and all 'round utility and you'll get MM MODERN MACHINES, VISIONLINED TRACTORS AND POWER UNITS.

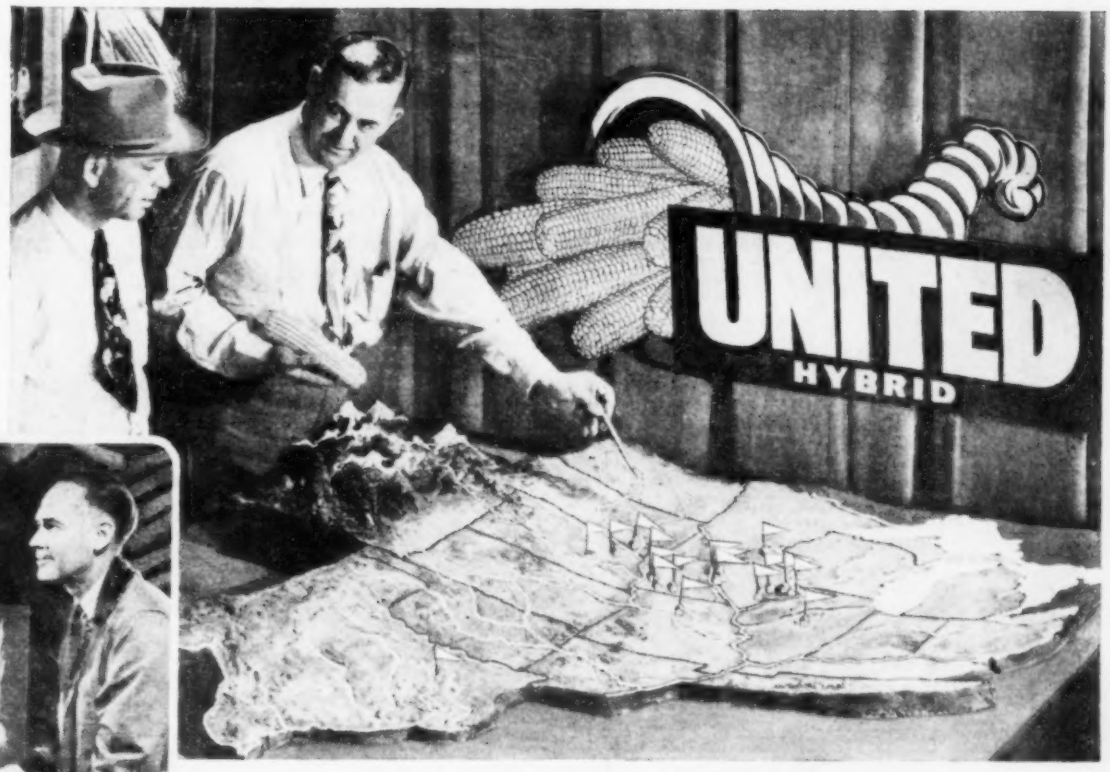
Get Complete Facts From Your Neighborly, Neighborhood Dealer

MINNEAPOLIS-MOLINE

MINNEAPOLIS 1, MINNESOTA

How to Make Sure You Don't Get "HOMESICK HYBRIDS"

PRODUCTION BLANKETS CORN BELT! *Hybridist* Ray Jackson points out one of United's 13 growing areas to H. R. Mason, Odebolt, Ia. Widespread production, plus hybrids from local inbreds, mean United is "at-home" on your farm.



EXCLUSIVE "KERNEL KOATING" protects seeds, gives *faster* starts, *better* roots. United's research director, Dr. Stuart N. Smith, indicates difference to *Hybridists* Joe Dresch and M. D. McGuire.

WHICH HYBRID FEATURES WILL MEAN MORE PROFIT FOR YOU?

MORE CORN ACROSS THE SCALES! *Hybridist* George G. Waite helps August Mammen, Lindenwood, Ill., check his yield of United . . . 5,175 bushels from 45 acres. (an average of 115 bushels per acre)

9-FOOT ROOT SYSTEM digs deep for food and moisture on this typical United stalk! *Hybridist* Frank Harty helps Carl Neumeister, Scotland, S. D. farmer, wash out and measure roots to prove it!

STANDS DROUGHT! *Hybridist* Harry Bullock and Leslie Douglas pause for a drink while inspecting corn on Douglas' Oskaloosa, Kan., farm. This United looks fine despite a prolonged dry spell.

TAILORED TO SOIL! A variety of strains lets you match United to your land. *Hybridist* Dale Ford (pointing) and Floyd Rule suggest proper hybrids for Fred P. Schell Jr.'s Liberty, Mo., farm.

Advice to Farmers Who Want *All-Around Performance*— Not Just "Test Plot" Yield

You may win blue ribbons with *any* hybrid on a "souped-up" test plot.

You can subirrigate, fertilize . . . nurse the corn like a baby . . .

But you can't make your whole farm a test plot!

To put more corn in your crib from your whole farm . . . thin soil or rich . . . come drought or disease . . . you want the hybrid that's specially bred for *sure* profit . . . UNITED! Acre for acre, United will outproduce, out-weigh, pick cleaner, stand up better under all conditions.

Why? Because United is the result of bringing together the best strains of *many* producers, combining research and breeding staffs of leading growers. Only United has all the plus features that mean more money for you: Hybrids from famous Reid yellow dent parentage, "Kernel Koating" for seed protection, faster starts, bigger yields!

Now is the time to buy United Hybrid and make sure of a bigger and better crop next fall. Order United today from your local representative.

WHAT IS A *HYBRIDIST?**

He is a *specialist*. He knows hybrid corn in all its phases. His free services are available to farmers *only* through United.

**"Hybridist" is the copyrighted name which identifies the trained experts of the United Hybrid Growers Assn.*

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UNITED HYBRID

UNITED HYBRID GROWERS ASSOCIATION
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THE *Hamilton* COMPANY

Displays at the Iowa State Fair

8 WISE MOVES for High Farm Income

See these 8 winning moves to insure high farm income at your nearest Hamilton dealer or inspect them at the Iowa State Fair and the Dairy Cattle Congress. The Hamilton Company is your exclusive Iowa distributor for each of these quality-built, field-tested money-makers.

You Can Depend on the Hamilton Hi-Line for Top Performance

Since 1869 the Hamilton Company has been providing wise Iowa farmers with the finest in farm equipment. Avoid unnecessary loss . . . save work with Hi-Line equipment.

The HAMILTON COMPANY

Main Plant . . . Cedar Rapids, Iowa

Branch Plant . . . Fort Dodge, Iowa

OUR 80TH YEAR

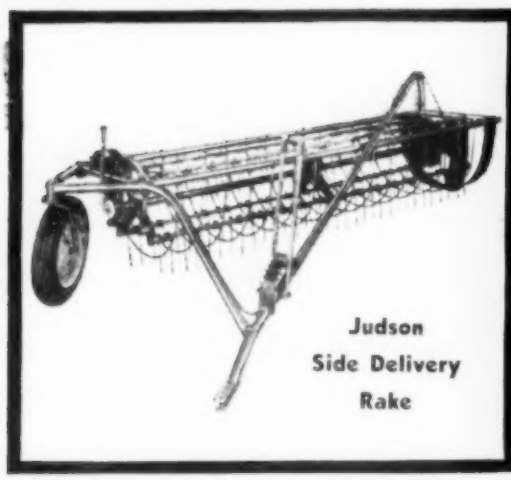
You're Invited

WE'LL ALL BE THERE to greet you at The Hamilton Company display at the Iowa State Fair, August 21-28 at the State Fair Grounds in Des Moines. Here's your chance to inspect the famous Hi-Line for yourself!

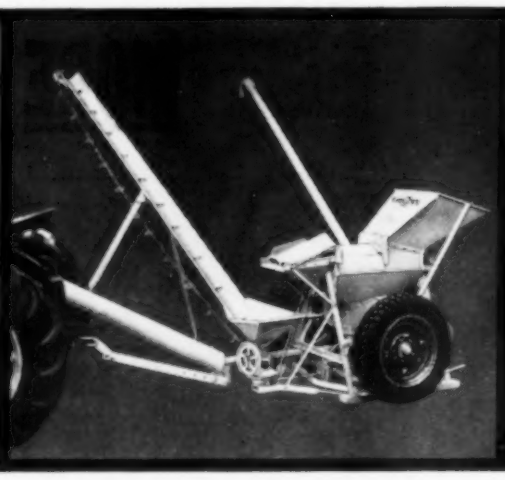
BLOCK J ☆ LOTS 21-24

Savage Heavy Duty Power Mower. The famous Model 75 Power Chief makes lawn cutting child's play . . . eliminates back-breaking work. It's easy to keep your lawn attractive with a time-saving, work-saving Power Chief. Thumb speed control, adjustable height, differential roller, baked enamel finish, 18" cut. The Power Chief is powered with the famous Briggs and Stratton engine.

Century Sprayer. Century's master control panel gives you complete control right from the tractor seat. Now spraying is a one-man job. The all-purpose Century performs every spraying job. Join the thousands of wise farmers who are protecting profits the Century way. Available for tractor, trailer or truck mounting and with one or two 80-gallon galvanized drums.



Judson Side Delivery Rake



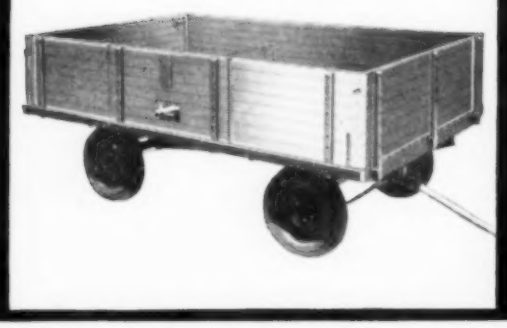
Smalley Tilting Hopper Blower

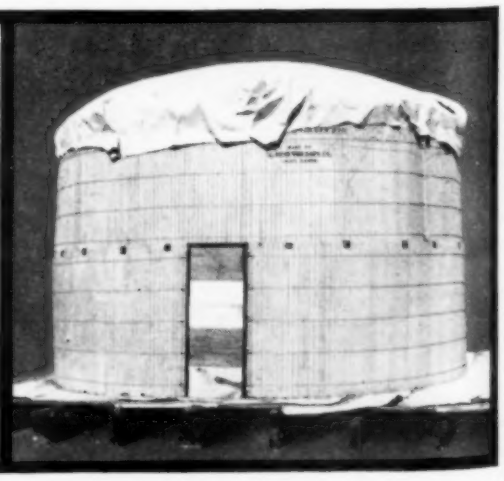
The Judson Side Delivery Rake is a high speed tractor rake . . . not a horse drawn adaptation. Four bar rake can be reversed for tedding . . . all roller bearings, reel and teeth adjustable from tractor seat. Uses "quick-tached" teeth. Rakes corners clean. Mounted on rubber. Made of airplane tubular steel. Low center of gravity to avoid side play.

Cross Corn Sheller. The only sheller on the market with a power take-off and transport. The Red Cross can be moved from one crib or farm to another. Power take-off eliminates necessity of staking down the sheller and lining up the belt. Save nearly an hour every time you use the new Cross Sheller . . . more in Iowa than any other make. Available with cob elevator.

The Smalley Tilting Hopper Blower is ideal for your farm. It features a 9-foot extra-wide Tilting Hopper, a 9-inch Positive Feed Auger. The Smalley "Model C" can be made roadable by one man in less than a minute without tools and it folds like a jack-knife to save space for convenient storage. Great capacity for forage, grain and silage.

Hamilton Hi-Line Truck and Barge Box





Clipper Cleaner. You save on both cleaning and hauling charges with the low-priced, economical **Clipper 2B Special.** This small power cleaner and sacker cleans grains at home to avoid undesirable mixtures. Cleans 15 to 25 bushels an hour. Reliable agitator, latest type hopper, feed easily regulated by thumb screw. Complete with 12 inter-changeable screens and power drive pulley. Easy to move from one location to another.

These sturdy boxes available in three sizes: 5 x 10, 6 x 10, 7 x 12. Sides and bottoms matched fir, tongued and grooved with heavy hickory supporting sills. Well ironed, and employs heavy stake pockets for easy side removal. The Hamilton Hi-Line truck is a high speed wagon with Timken bearings and Bendix brakes. Built for speed with full 2-ton capacity.

Denning Portable Grain Bin. Solve your grain storage problem economically with a Denning Portable Grain Bin. Stores safely up to 1,000 bushels. It can be put up in two hours by two men. Ideal for field storage and an excellent portable silo. Denning Bin comes in two sections, 4 feet high, 41 feet long of seasoned pine or fir staves tightly bound with galvanized steel wire to five strong steel hoops. Asphalt treated blanket cover or steel roof.

THE 1949 Iowa State Fair may hit an all-time high. Cash prizes are at a new record total for the fair's 91-year history. Livestock entries will be on hand from all parts of the United States. Reservations for exhibit space have been filled for more than two months.

Given a good break in the weather, plus good crop prospects, fair officials see a good chance to set an all-time attendance record. Eight full days (and nights) packed with education, entertainment and thrill features, from August 26 thru September 2, should draw more than half a million people thru the turn-stiles.

The rich premium list—with total prizes of nearly $150,000—will attract some of the best livestock from every part of the country. The finest grains and other products from every section of Iowa will be on display. And you'll see thousands of other exhibits from industry, homes, colleges, clubs and the young people.

Top farm event of the fair, as usual, will be the huge national livestock show. Nearly 7,000 prize animals will be on display in acres of modern, fireproof show barns. Nearly $100,000 in cash prizes will go to the blue-bloods of the swine, cattle, horse and sheep worlds.

Livestock judging will be in progress almost continuously every morning and afternoon. Judging rings are open to the public, free of charge.

Junior farm events at the fair are expected to break all previous records. FFA and 4-H premiums amount to more than $27,000. About 3,000 picked farm boys and girls from every county in Iowa will compete for championships in nearly every field of farming, livestock raising and farm home management.

As usual, too, the State Fair will have all its traditional exhibits of farm products. There will be the state corn show. The small grain show. The individual farm exhibits contest. The orchard and garden products show. Even a honey and bee show.

New classes in the poultry show will put special emphasis on high-producing hens, the "chicken of tomorrow," and a special production show for turkeys.

For farmers interested in new farm equipment, there will be more than forty acres of machinery exhibits—enough to keep you on the jump all day long, and then some. For the missus, there will be buildings filled with new ideas and new equipment for the farm home.

Several brand-new features have been added to the Iowa State Fair program. Here are a few of them that will interest you:

A farm gadget show, with more than $600 in prizes to be paid for the best practical inventions by Iowa farmers. There will be one section for heavy equipment, another for smaller gadgets that are handy around the barn or house.

A special series of displays showing "What's New In Farming" has been arranged by Iowa State College. Booths for these displays will show new crops, new ideas in soil conservation, weed control, insect control, landscaping and farm management.

Fair Program

To help you plan your trip to the Iowa State Fair, this issue gives details on schedules on all events. You will find them on these pages:

Hog Show	16
Beef Show	52
Dairy Show	41
Junior Fair	42
Entertainment	24, 37
Women's Events	58
Special Features	38, 53, 64

See Page 12 For Fair Grounds Map

"Elsie," the cow, has been loaned to the fair by the Borden Company. She'll be on exhibit in the Agricultural Building in her own "bovine boudoir," complete with twin beds.

Farm women will have their innings with an exposition of their own. This will include contests in cooking, baking, needlework, flowers, gardens, family living and many others. There will be lectures and demonstrations on fashions, the proper care of children, and homemaking.

Topping it off will be the popular annual Iowa Baby Health Contest, with nearly 700 babies competing for the state championship.

But these are only a few of the main features of the Iowa State Fair. There will be a host of other things for you to see, such as the fish and game show, art salon and photo exhibit, the airplane show, the public schools exposition, a "Hall of Science," harness and saddle horse shows, boys and girls' quiz derby, horse pulling contest, old fiddlers' contest, the horseshoe and checkers tournaments.

And, of course, the 10-acre midway—packed with rides and shows, including Adolf Hitler's bullet-proof car.

The big grandstand shows will include two days of big-car auto races, one afternoon of stock-car races, three days of harness and running races, two thrill days, a big musical show and fireworks every night, and three-ring circus twice a day.

Children's Day will be Friday, August 26, with free admission at outside gates for the youngsters, and a big kiddies' jamboree in the grandstand at 9:30 a. m.

"Our big surprise," says Fair Secretary L. B. Cunningham, "is that admission to the fair still will be only 50 cents. Where else can you have so much fun, see so much, do so much, for so little money?"

We think you'll agree. So we'll be seeing you at the Iowa State Fair.

Editorials

Is Your Farm Rented For 1950?

ARE you a renter? Then how are you fixed for 1950 on the farm you are renting now?

While leases don't usually start until March 1, most of the good farms are spoken for six months earlier.

That's why many Iowa farmers want the notification date on the end of a lease to be September 1, and not November 1.

When prices are going down, you'll do better on a share lease than a cash lease. Remember, too, that there may be allotments for corn next year. What kind of a corn base will your farm have?

There may be more men looking for farms next year than there are farms to rent. Every tenant should get lined up for 1950 as early as he can.

When Corn Is Out Of Danger

"HOW many bushels will your corn average this year, John?" And the answer often is: "Ask me after August. Ask me after frost."

With corn 10 days to two weeks early this year, nobody is worrying much about frost. And even if August turns hot and dry, much of the corn is safe.

Nobody is sure yet, tho, about corn borers and grasshoppers. But, every day, farmers worry less and less about the size of the crop and more and more about where they're going to put it.

Look For What?

Corn borers, of course. Lee Landrum, Henry county, Iowa, finds some. Spraying and dusting have checked the borers, but many farmers will worry about them until the crop is husked.

Last month, a lot of farmers were saying: "We never saw such good corn—nor so many borers."

New Record Coming For Loan Corn

THERE'S more corn on farms in Iowa this year than in any past year. And there is almost as much under seal as for the crop of 1939.

Here are the records of sealed corn by crops, in bushels:

Crops of 1932 and 1933	100,000,000
Crop of 1939	144,000,000
Crop of 1948	138,550,000

This year, of course, there are 53,000,000 bushels under purchase agreement, in addition to the 138,550,000 under loan.

How much will be resealed? How much of the 1949 crop will go under the loan?

Nobody knows yet. But it is clear enough that the total under loan (new and resealed) by this time next year will make the 1939-40 record look small.

Pay Checks Go Into Meat, Milk

HOW do you sell more milk? One way is to find plenty of consumers who are getting $3,000 a year or more.

A recent federal survey shows that families with incomes under $1,000 spend 73 cents per person per week for milk, cheese, ice cream, etc., while families with incomes of $3,000 and more spend $1.14 weekly per person for the same products.

Meat-buying increases, too, but not quite so fast. There are no meat and milk surpluses when consumers are well off.

Hog Farmers Are Left Out

LAST winter, when it looked as if the 1949 spring pig crop would increase by 10 to 15 per cent over 1948, every hog raiser began to wonder:

"Will we get support prices for hogs next fall?"

Under the present farm law, support prices at $18.50 are promised for September. This is the Chicago price for good and choice butchers.

Under the present farm law, an average of around $16 is promised for the period October, 1949, thru March, 1950. These are also Chicago prices.

WALLACES' Farmer and Iowa Homestead checked the situation with the best hog market experts it could find. One man said:

"To hold hog prices up to support levels this fall, the government will have to do one of two things: Build a government packing house in every state. Or use production payments."

We asked: "How about the plan of buying and storing pork by the government?"

His answer was: "It didn't work last time we had a flood of hogs. It won't work this fall. And trying to make it work will cost more than using production payments."

So, last winter and spring, Wallaces' Farmer and Iowa Homestead began to urge that production payments be authorized to support hog prices in the fall of 1949.

Congress Drops Production Payment Plan For Hogs

Right here, some farmers may want us to stop and answer the question: "What is a production payment?"

Under the production payment plan, the market price on hogs is allowed to go wherever supply and demand sends it.

Suppose we get a lot of hogs in the market in the middle of September. And the market price heads down to $16. The support price is $18.50.

A FARMER who sells his hogs that week takes his sales slip—probably to the county AAA office—and gets a check for the difference between $16 and $18.50 on the volume of hogs sold.

Maybe he sold extra good hogs and got $17. He still gets a $2.50 check. Maybe he sold low-grade hogs and got $15. He still gets $2.50.

Good feeding and skillful marketing will still get whatever premium the market offers.

This is the production payment.

The other way of seeing that farmers get their promised support price is for the government to buy up pork on the market, store it, and hope to get rid of it later.

Both methods are subsidies. Both involve appropriations by congress.

Last spring, at the request of Secretary Brannan, bills were introduced in each house of congress to authorize production payments on hogs.

What has happened to these bills?

The senate bill is blocked by a senate sub-committee headed by Senator Gillette of Iowa. The house bill is also buried.

This will be good news to the U. S. Chamber of Commerce, which has steadily opposed production payments. It will be bad news to corn belt hog farmers who want to see the government make good on its promises this fall.

MANY Farm Bureau members in the corn belt will regret that some of their leaders in the American Farm Bureau Federation have also helped to block production payments for hogs.

Those folks who object to production payments are apparently figuring that hog prices will stay above support levels this fall without this kind of help.

Wallaces' Farmer and Iowa Homestead hopes hog prices will stay up. But we're not sure of it. And we think it is foolish to refuse to take steps that would keep returns to farmers at support levels.

Senator Aiken favors production payments. So does Secretary Brannan. So does Wallaces' Farmer and Iowa Homestead. So do many hog farmers. But it looks as if we'd all been out-voted.

If your returns from hogs should fall below support levels this fall, remember who is responsible.

Too Many "Suitcase" Farmers

YOU probably don't grow wheat. Not many of our subscribers do. But, if you do, you've had notice that the acreage for harvest next season should be cut 17 per cent under the planted acreage for this year.

What this means is that wheat growers are going back to the old arguments of the thirties. What's the proper allotment for this farm? Does a farmer who plowed up everything get the same deal as a man who used a good rotation?

There's no question about the basic facts. We're growing too much wheat for the present market. Should we rely on bad weather to cut down production? Should we feed more wheat? Should we cut down acreage?

Under the Hope-Aiken law, the decision is made for us. We'll have to try to cut down acreage?

How will it work One trouble is the "suitcase" farmer out west.

Wheat acreage expanded fast on the great plains, where good weather and war demand combined to boost production.

Why not make sharp cuts in this war-expanded acreage? One reason is that speculators, after working the war market, sold out to veterans. Now, much of this new wheat land is held by GI's, who want good wheat allotments.

Corn growers, watching wheat men struggle with allotments, will wonder how they can avoid similar troubles next year.

If the nation used all the meat and milk it really needs, nobody would have to cut corn acreage. High industrial production, high pay rolls, production payments, food stamps, school lunches would have to work together to get consumption up to the right level.

It is possible for feed and livestock men to operate without allotments. But we'll have to be both smart and lucky to manage it.

Corn Borers

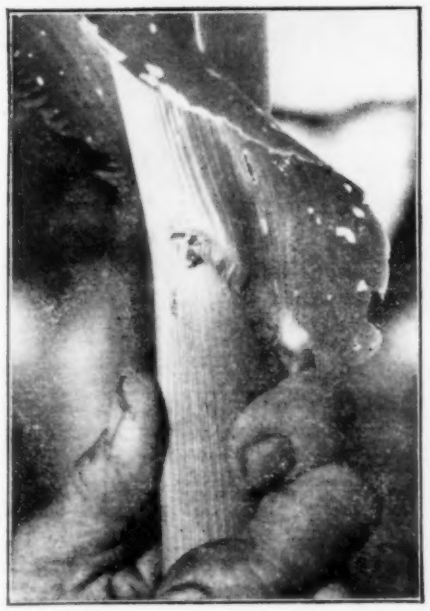
There are lots of corn borers at work in Iowa this year. J. M. Hunt, in Hardin county, reported a count of 540 egg masses per stalk in his corn on June 16.

That was bad! The Hunts sprayed with DDT, and 10 days later the count was down to 200.

Another spray on June 26, and Hunt found an average of only one-half borer per stalk. A check lot left unsprayed showed 10 borers per stalk.

Later, we'll see what difference spraying made in the yield.

Wallaces' Farmer and Iowa Homestead will welcome news of similar experiments from other farmers.



Hunt shows borer at work.

Odds *and* Ends

"CORN looks too good," said one farmer the other day. "Something's bound to happen to it."

HIS neighbor warned: "Don't let high summer hog prices fool you about what is going to happen this fall."

AN OPTIMIST could point out that all sales in the first half of 1949 were only 2 per cent under the peak of the boom in the last half of 1948. Is the boom really over?

THE boom is over for dairy farmers in market milk districts where folks are out of work. Fluid milk sales go down fast.

PLENTY of water for stock on your farm? Meat, egg, milk output go up 10 per cent or more when there's plenty of water on hand.

WHAT about your home? This is the time of year when shower baths and water heaters seem worth a lot more than they cost.

IOWA has more June pigs this year than usual — a 16 per cent increase over June of 1948. Which market will they head for—January or March?

DID you raise more baby chicks this year? Most folks did. Iowa farmers had 18 per cent more chicks in the first five months of 1949 than in a similar period in 1948.

THIS year, the early bird who cleaned up his fence rows and weed patches early was rewarded by grasshoppers moving into corn and hay fields in a hurry.

"IT IS necessary to authorize the use of direct production payments as an alternative to the pegging of market prices if an effective support program is to be carried forward without waste of commodities and without denying to consumers the benefits of agricultural abundance."—President Truman.

COTTON acreage is up 14 per cent. High support prices have pushed acreage and production above what is needed.

IF YOU'RE worrying about food surpluses, note that on January 1 we had only 386 hogs per 1,000 persons. In 1939, we had 382.

WAR markets have always brought out the most hogs per 1,000 persons. In 1918, we had 594 hogs per 1,000 people, and in 1943, 547 hogs.

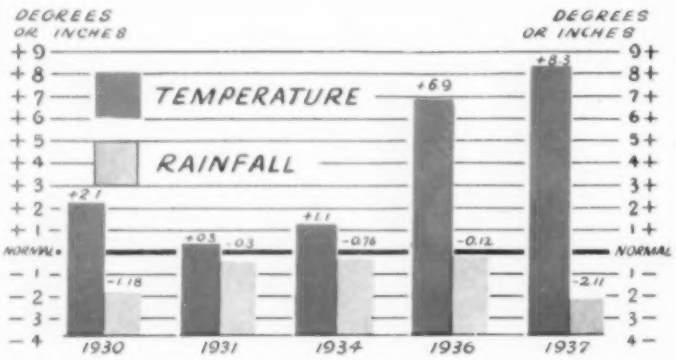
IT ISN'T the large number of hogs that breaks the price. It is lack of money in the consumer's pocket.

Song of the Lazy Farmer

MOST ev'rything 'bout summer's good, I wouldn't change it if I could; I dislike just one thing it's got and that is it's so dang-blamed hot. But even heat is not so tough for anyone with sense enough to follow Mother Nature's tip and operate at slower clip. When temperatures begin to boil, no animals or birds will toil, you don't see much life anywhere; the hens are holed up here and there, you won't find cows upon their feet—they're in the shade away from heat, and pigs are in their wallers cool, it's only man that is a fool.

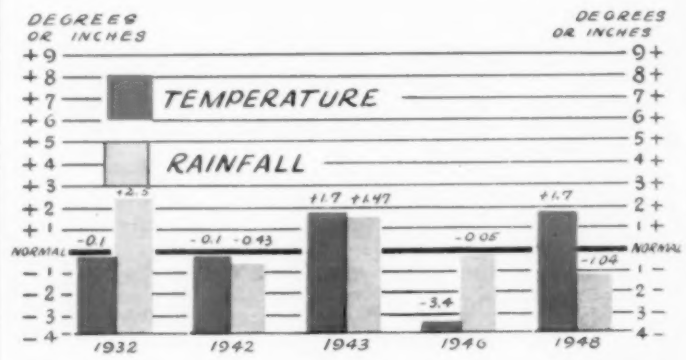
That is, most men are fools but me; why, right from here I plainly see my neighbor and his hired man out workin' just as hard's they can. I'd feel some pity for those guys, 'cept they need not be so unwise, 'cuz all they have to do is look at me and borrow from my book. Whene'er the sun begins to scorch I settle down upon the porch, and I don't move at all, by gee, except to pour some more ice tea. But they are out there drippin' sweat, it burns me up to watch, and yet it also cools me to behold, because it makes my blood run cold.

August In Poor Corn Years



Hot And Dry Augusts have been the rule in the five poorest corn years in the last 20. The chart above shows Iowa Augusts for the five years. Red column indicates temperature. Lighter column shows rainfall. Black line is normal (75-year average). Figures in margins show degrees or inches above or or below normal. The poor corn years are indicated at the bottom of the columns. Notice that in bad corn years temperature for August was always above normal and rainfall was always below.

August In Good Corn Years



Cool Augusts have helped in the making of three out of five bumper corn crops in Iowa. The chart shows heat and rainfall for the five Augusts. Red column indicates temperature. Lighter column shows rainfall. Black line is normal (75-year average). Figures in margins show degrees or inches above or below normal. Years are indicated by figures under columns. Note that in bumper corn years there have been no extremes of hot or wet. Moderate weather for August is good for the corn crop.

Cool August Needed For Corn

Early-Season Heat Put Corn Far Ahead

By HOMER HUSH

WHAT can August do to the corn crop? Farmers can remember when August did plenty. No longer ago than 1947, a hot, dry August got in its work.

But August can finish off bumper crops as well as burn them up. August was good to the corn crops in the seasons of 1946 and 1948.

The condition of the corn on August 1 has something to do with the effect August weather will have. This year, corn is easily two to three weeks ahead of schedule.

But let's take a look at August weather of the good and bad kinds. Then we can consider what August may do to the 1949 corn crop.

For Bumper Crops

In three out of five big corn years, August weather has been cooler than normal. Three out of five have also been drier than normal.

Weather for the good corn years of 1932, 1942, 1943, 1946 and 1948 is shown in the chart at the right above.

Dry weather in August doesn't seem to hurt corn if the weather is also cool. The big crops of 1942 and 1946 were made with the cool-and-dry combination.

A cool-and-wet August made the big corn crop of 1932. And a warm-and-wet August made the big crop of 1943.

Unusual Result In '48

The big crop of 1948 came when August weather was warm and dry. This is the only big crop that has been finished off by warm-and-dry weather. The explanation may be found in the timing of the heat and rainfall.

The latter part of July, 1948, was very wet, and August began with the soil soaked. The surplus August heat came at the end of the month. The heat came at the least damaging time.

So you can expect August to finish off a bumper crop if the weather is (1) cool and dry, (2) cool and wet, (3) warm and wet, or (4) moderately warm and dry. In the latter case, the timing of heat and rain must be favorable.

Dry And Hot Hurts

It seems that the only kind of August weather that hurts corn crops is a combination of dry and hot weather. It can be either dry or hot without much damage, but, coming together, dry and hot cuts yields.

This isn't news to farmers. Extreme heat reduced the 1947 crop to a 32-bushel average after an early summer that had been very wet.

In 1936, extreme heat in August cut corn yields to 17.7 bushels per acre, in spite of the fact that August rainfall was within a fraction of an inch of normal.

All really bad corn years have been both hotter and drier than normal in August. Five of these years are shown in the chart on this page. (Left above.)

What Is Hot and Dry?

The average rainfall for August in Iowa is 3.58 inches. This is about four-fifths of an inch per week.

The average temperature is 72.3 degrees. This is the average "mean"—halfway between high and low for the day.

No really big corn crop has been produced in Iowa when the temperature was more than 1.7 degrees above normal in August. No bumper corn crop has ever been produced when rainfall was much more than one inch below normal.

So the hot and dry for August is when temperatures average about 2 degrees above normal, and when rainfall gets down to about a half-inch per week. The first half of August carries the greatest threat to corn, however.

How Is Corn So Far?

May, June and July were good corn months this year. It is safe to say that corn is from two to three weeks ahead of normal.

The color of the corn was good as it came to the tasseling stage. The dark-green color means plenty of nitrogen.

Reserve moisture in the soil was not quite so favorable, however. Total rainfall for May, June and the first half of July was over two inches below normal. Even spacing of the light rains kept crops looking good.

What Can August Do?

As corn is about two weeks or more ahead of normal, good or bad corn weather in August should have less effect this year compared with most seasons. That's because a larger than usual part of the critical silking and earing stage is past.

But corn can be helped or hurt any time before denting. Ears can be shortened or lengthened; kernels can be shallow and shriveled or deep and plump; corn can be light and chaffy or sound and heavy.

So watch the heat and rainfall for a hint as to the size of the corn crop. Hot and dry means damage. Almost any other combination is favorable.

While the early months of dry, warm weather have made corn more than usually vulnerable to early August drouth, one other danger has been reduced: Almost no danger from frost damage exists.

August could not be cool enough to take away the prospect of an early-maturing crop. Even high-moisture corn is unlikely.

Get the cribs ready if in your area you have been getting three-fourths of an inch of rain per week and temperatures are moderate or only warm. That means a bumper crop unless corn borers prevent it.

1 Arriving at the State Fair camp site last year, the Carl Funk family, of Des Moines county, Iowa, was greeted by four neighbor families. The Funks pitched their 10x12 tent nearby.

2 Picnic on Sunday brought the five Des Moines county families together for dinner. Besides a tent (they're available at the camp grounds, too), the Funks brought stove, cots, utensils.

It's A Family Fair

LIKE many other Iowa farm families, the Carl Funks, of Des Moines county, make their annual trip to the Iowa State Fair a regular family outing. Each year, Carl gets a neighbor to do the chores for him for a few days, loads his family, tent, cots, stove and cooking utensils into the car, and drives the 140 miles to Des Moines.

The Funks pitch their tent on the big camp grounds at the Fair, do all their cooking right there. "It's a lot of fun this way," say the Funks. And it gives them a chance to do a complete job of seeing the Fair.

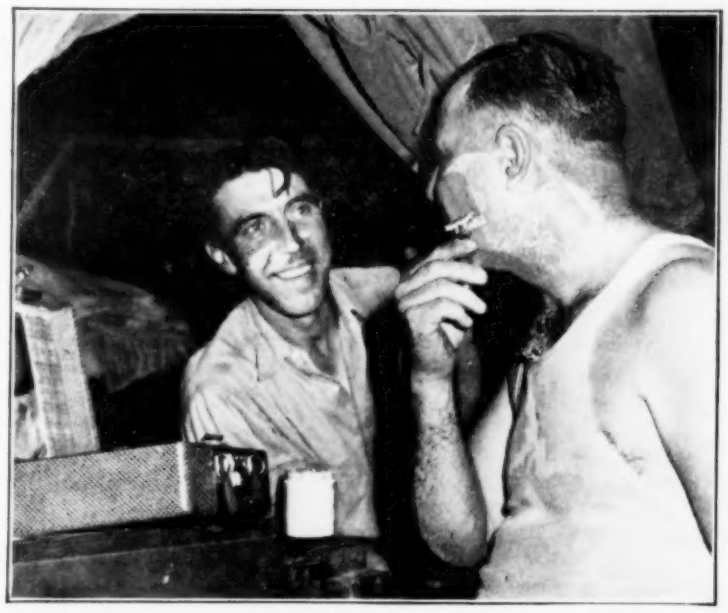
It's a good way to visit the Iowa Fair. The camp grounds are handy to everything: The grandstand, with its afternoon and evening programs of auto and horse races, daredevil drivers, musical show and circus. The midway, with its many rides and shows. The buildings and acres full of interesting exhibits, from farm and home equipment to cherry pies and rare fish. The pavilion, with its all-day livestock judging and its evening horse shows. And, of course, the barns full of prize cattle, hogs, horses, sheep and poultry.

You'll find a host of old friends—or make new ones—at the camp grounds, too. And this admirable site is equipped with about all the facilities a family will need for an enjoyable camping trip.

Further details on the State Fair camp grounds and what's available there will be found on page 64.

3 Car Trunk serves as "pantry" as Mrs. Carl Funk slices cake for daughter Betty Jean, son Bob, and neighbor boys the Funks brought along.

4 Water supply is handy at camp grounds. Betty Jean Funk gets aid from another camper, Fred Breeding, Madison county. Grounds also have electric lights, shower baths, modern rest rooms.



5 Visiting camp grounds neighbor, T. C. Thompson, Carl Funk looks in on morning shave. Thompson travels to fair each year in special trailer made by voc-ag students at Yarmouth.

Big Ears From Last Year's Crop Filled Cribs To Overflowing

Neck Deep In Corn

Hogs Can't Eat Big Corn Surplus Which Now Threatens

IS IT good business to reseal the corn? Do you stand a chance to make money by keeping the corn on the farm? Let's look at the situation and the possibilities in it.

Things to consider include: (1) The supply of old corn, (2) the consumption for feed and other purposes (disappearance), (3) the size of the new crop, and (4) the resealing plan.

Corn Pile Is Big

Volume of corn on farms on July 1 was the largest on record. The total was placed at 1,239,444,000 bushels. The 10-year average for July 1 is 708,080,000 bushels.

These figures show that the farms of the United States have corn supplies above the average to equal a good Iowa crop. The actual surplus over the 10-year average is 531,000,000 bushels.

Can Hogs Eat It?

This surplus corn would feed 31,257,000 head of hogs to 200-pound weights. That's allowing 17 bushels per hog.

Farmers don't have that many extra pigs. The indication is that there will be over 96 million pigs in the spring and fall crops.

This is 10 or 11 million more pigs than have been raised annually during the last five years. But it is only four or five million more pigs than have been raised as an average of the last 10 years.

The extra hogs and the increased cattle feeding can't use up all this corn. A big surplus of old corn hangs over the market.

More Corn Coming

Another bumper crop of corn was predicted on July 1. The estimates were for 60 bushels per acre in Iowa and 41.2 bushels for the nation. The total at 3,530,185,000 bushels is the second largest crop on record.

This estimate was based on actual conditions July 1. It could be cut down by hot, dry weather in any of the main corn-growing states.

To get a line on the corn grower's possible situation, let's allow for damage. Suppose the crop is cut 20 per cent, to the 10-year average of 2,787,628,000 bushels. There would still be a big corn surplus.

"Free Corn" Again?

Is there a chance for corn to sell at the sealing price on the market with a crop such as that? It looks as if we would have "free corn" a while longer.

"Free corn" is corn that is not eligible to seal for government loans. It may be because the moisture content is too high. Or, it may be that the owner does not have a crib good enough to keep the corn safely and meet sealing regulations.

Enough "free corn" has been offered to supply the market for eight months now. Since last December, the price of corn at elevators has been 20 to 30 cents below the loan level.

One farmer says corn prices next December may be down to 75 cents on the market. He figures farmers won't acquire enough storage to care for the crop.

Corn Raiser's Trouble

It is against this corn supply situation that farmers must decide what to do with corn that is sealed or under purchase agreement. They have until October 31 to make the decision.

The resealing program offers 10 cents per bushel storage fee if the farmer reseals and finally delivers the corn to the government in payment of the loan.

There is also an offer to lend 85 per cent of the cost of cribs or bins acquired by corn producers. The loan limit is 45 cents per bushel capacity, however.

Consider Your Own Farm

Each farmer should consider his own farm conditions in making a decision. If you have livestock to eat the corn, or if your corn crop this year will be short for any reason, the corn should be kept on the farm as a matter of good business.

Resealing, if necessary to keep corn on the farm, is insurance for such farmers. If corn gets cheap, you can buy corn to feed. You can pay the loan and use the sealed corn if necessary.

Pay To Build Cribs?

But the cash grain farmer is in a little different situation. He may have to buy or build cribs in order to reseal his corn.

If the corn market next December reflects supply conditions, it will pay to have cribs in which corn can be sealed. There is no doubt about that.

Even with "free corn" selling at 20 cents below loan values, as it has during this last year, there is profit in providing cribs. It doesn't cost 20 cents per bushel per year to store corn.

Cribs can be provided for 25 to 50 cents per bushel capacity. If such cribs lasted only 10 years, the cost per year would be 2½ to 5 cents for the first cost.

This 20 cents is enough to pay for both storage and drying of wet corn. And the difference between the market price and the loan price might be more than 20 cents next December.

Bins Will Pay, Too

But some might say that, in order to have room to seal the new corn, the old corn should be delivered.

You can earn 10 cents per bushel by resealing. The corn can be resealed as shelled corn in bins after the moisture content gets down to 13½ per cent. In Iowa, old corn under seal will not be taxed as personal property. New corn is not taxed, whether sealed or not.

It doesn't cost 10 cents per bushel to store shelled corn on your farm. Bins can be bought for from 25 to 30 cents per bushel capacity. The first cost per bushel per year, if the bin lasted 10 years, would be 2½ to 3 cents.

It's worth remembering that the one who reseals keeps title to the corn until it is known what the next crop will be like. Bumper crops have never continued year after year indefinitely.

Do You Know...

- **That the surplus corn on farms, above the 10-year average, would feed out over 31 million hogs?**
- **That 31 million hogs are about one-third of an average pig crop for the whole nation?**
- **That the present crop now growing in the corn belt might add another half-billion bushels to the surplus?**
- **And, do you know where you will store your corn this fall? Whether to reseal your old corn or not?**

Read About These Problems On This Page

BANK YOUR GRAIN

GRAIN CAPACITIES 1,000 to 44,000 BUSHELS AND LARGER

BUTLER
STEEL BUILDINGS
Especially Designed with Extra Strength For Grain Storage as Low as 17c bu. Also an excellent Utility Building for Many Other Farm Storage and Sheltering Purposes.

BUTLER
GRAIN BANKS

You can afford a Butler Grain Bank. Select the type best suited to your needs.

1. It is eligible for a purchase loan.
2. It makes your grain eligible for a commodity loan.
3. It enables you to collect a storage fee.
4. It makes it unnecessary to accept less than support price for your grain.

1. BUTLER STEEL BUILDINGS provide safe grain storage, easy in and out handling and turning by machine. Also provides finest kind of shelter for machinery, livestock, seed, feed, hay, etc. In fact, it gives you an all-purpose, full time farm building for many, many years to come. Extra strength for grain storage is built-in at the factory. This saves the work, time and extra cost of cribbing. Two widths—variable lengths. Grain capacity of 32 ft. x 100 ft. is 32,500 bu. — 40 ft. x 100 ft. is 44,000 bu. Send for erected on farm prices *as low as 17c per Bushel.* Easily partitioned.

2. BUTLER BANTAM ELEVATOR. Large scale grain farmers or farmer groups—own your own grain elevator. Complete unit including Butler Bolted grain tanks similar to those sold extensively to elevator firms. Top quality elevating machinery for filling, turning and loading out. Gasoline motor or electric power. Capacity can be varied from 14,000 to 36,000 bushels. Permits fumigation. Erected by reliable elevator construction firms.

Send for erected prices which range around 50c per bushel*—slightly less for capacities over 30,000 bushels, slightly more for smaller capacities. SEND NOW FOR FULL FACTS.

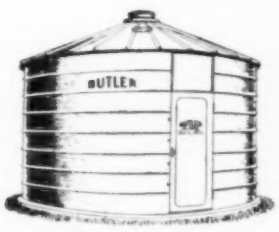
SEND NOW FOR FULL FACTS

3 BUTLER Blue Ribbon Line

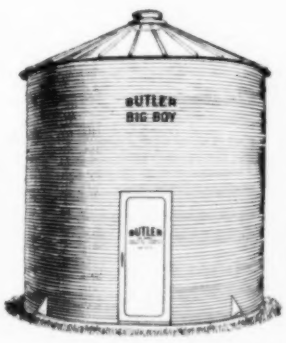
Famous For Over 40 Years

Butler Steel Bins 40 years old are still in use. For over forty years, Butler engineers have improved their quality.

1,000 BUSHEL
Butler Long Life Junior Bin 14 ft. x 8 ft. Complete with steel bottom, steel foundation band and anchoring lugs. See Your Dealer.



2,200 BUSHEL
Butler Long Life Senior Bin 18 ft. x 11 ft. Like the Junior except heavier galvanized steel. Equipped with angle iron ladder, adjustable platform ventilator. See Your Dealer.



3,276 BUSHEL
The Butler Big Boy is used successfully to store millions of bushels of grain. 18 ft. x 16 ft. Equipped with angle iron ladder, anchor plates and take-up anchor rods. See Your Dealer.

BUTLER MANUFACTURING COMPANY
Kansas City, Mo. Galesburg, Ill. Richmond, Calif. Minneapolis, Minn.

Butler Bantam Grain Elevator
Capacity _____ Bu.
Butler Blue Ribbon Steel Grain Bin
_____ 1000 Bu.
_____ 2200 Bu.
_____ 3276 Bu.
Butler Steel Building:
Size 32 ft. wide x _____ ft. long.
Size 40 ft. wide x _____ ft. long.

Send full information and prices on Butler Grain Bank checked at the left.

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Hay-Making was one of the last farm jobs to have the backache taken out of it. Walter Passmore (driving) and Kenneth Mosher try new field chopper on alfalfa hay on Passmore's Wright county, Iowa, farm.

Machine Farming Means

Less Work - - - More Profit

By LEE THOMPSON

DID you know that you have just lived thru a revolution in farming? Maybe you didn't realize it, because you were living and participating in the revolution.

During the five years of 1934 to 1939, farm production increased twice as much as it did in the 20 years from 1919 to 1939. This is shown by the U. S. Department of Agriculture figures.

Let's look at it another way. By the end of World War I, or by 1920, each farm person was producing enough to support himself plus two other persons, and nearly half enough for a fourth person.

From 1920 to 1940, production for each farm person was increased enough to support that additional one-half person; so, by 1940, each farm person was producing enough to support himself and three other persons.

Then came a sharp increase during World War II. Each farm person in the United States produced enough on the average to support here and abroad more than five and one-half persons in 1945. In five years, this represents an increase per person of nearly 45 per cent.

How did it happen? Some farmers might say: "We had pretty good weather." That is true. Weather did help; but it also hindered farming. Maybe you will remember those wet springs in 1943, '44 and '45.

Back in the old days, those wet Mays would have set back the corn crop. Instead, we had good yields. What's the answer?

The answer lies in another figure. In 1945, there were about twice as many tractors on farms as there were back in the 1935-39 period.

Modern farm machinery gave farmers a chance to produce more crops and more food, even tho hired help and sons and daughters had gone to defense work or entered the service.

Farmers still have the machinery, and they are looking for more. The increase in use of manure loaders, corn pickers and combines is evidence that farmers are quick to take advantage of any new labor-saving machine.

Haying was one of the last farm jobs to have the handwork taken out of it. But, as implement manufacturers put labor-saving hay machinery on the market, farmers were quick to use the new machinery. Turn to page 44 for a discussion of the various methods of putting up hay.

But what about the small farmer—the man who puts up only 15 acres of hay, for instance—but wants to take advantage of the new labor-saving machinery? Many farmers face this problem.

A farmer's own use for a particular machine sometimes does not justify the added expense of the machine by itself. Yet the farmer feels that he could use the machine profitably if he could get some help with the cost. Then there are four possibilities:

1. You can buy the machine. Pay for it with custom work.
2. Hire custom operators to do the work for you.
3. Buy the machine on an exchange or partnership basis with your neighbors.
4. Look around for a sound, second-hand machine.

If you do custom work, it will help you pay for a machine that perhaps otherwise you could not afford. Farm implements, such as combines, grain drills, corn pickers and ensilage cutters, are used for only a few days a year. One way to lower the cost is to spread the expense over more working days.

You can't, of course, make a decision without considering your local conditions. If there's a nearby farmer who does custom work, maybe you can hire him cheaper than to buy your own machine.

But if there is no machine of this type in your neighborhood, you may be able to own the machine profitably, even tho you can not utilize it completely yourself.

Arrangement 3 makes it possible to own more labor-saving machinery and still avoid long seasons of custom work to pay the bills. You get as much benefit as if you owned the machine yourself. And you have help in paying repair bills.

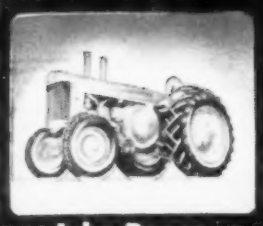
Joint ownership of farm machinery, as of any other property, can lead to friction and disagreement unless both parties understand clearly what is expected of them. The important thing here is to give careful thought to picking your partner and to getting your ownership agreement down on paper.

If you are a pretty fair mechanic, the best deal might be a good, used machine. But if you don't have the skill to operate a machine that is not in first-class condition, you should probably stick to the other possibilities.

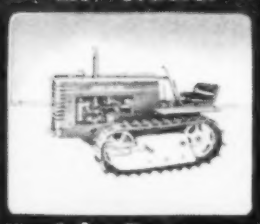
But don't give up adopting some newer, easier and more profitable method of farming just because your acreage doesn't justify the investment. Consider the four methods suggested above. One of them might help you to save work and do a better job of farming.

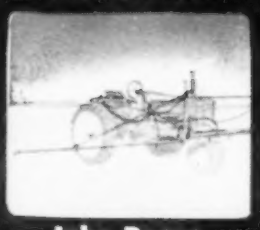
You'll Find It At The Fair

See
These and Other
New
JOHN DEERE MACHINES


John Deere Model "R" Diesel

John Deere "MT" Tractor


John Deere "MC" Tractor


John Deere Sprayer

Visit the JOHN DEERE Exhibit...

at the IOWA STATE FAIR
Aug. 24-Sept. 2

In Any Crop Condition...

JOHN DEERE PICKERS Save More Corn

In wet or dry conditions . . . in light, heavy, standing, or down crops . . . whether large ears or nubbins, John Deere Pickers save more corn. Long, gently-sloping gatherers, low-down gatherer chains, and low-down snapping rolls "trap" more ears. Big-capacity wood and rubber husking rolls assure clean corn. Shelled corn is saved.

No. 200 Two-Row, Pull-Type Picker

There's no other corn picker like the John Deere No. 200 Two-Row, Pull-Type Picker for big-capacity, corn-saving work on contour rows. The No. 200 hugs the wagon on the contour and at row-ends. A rotating hood on the wagon elevator loads the wagon evenly from front to rear. Because of its light weight and light draft, the No. 200 requires less power regardless of field conditions.

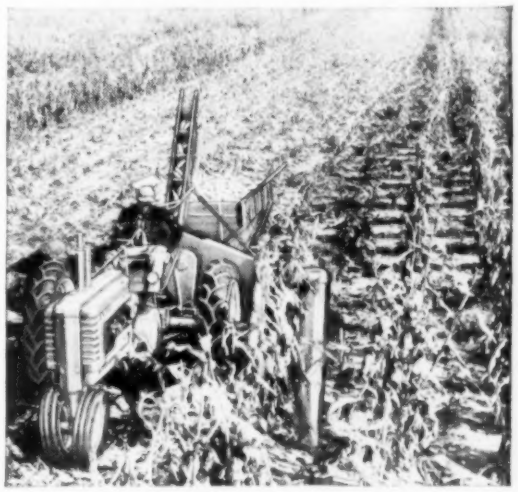
No. 101 One-Row Picker

On smaller acreages the John Deere No. 101 Wheel- and Drawbar-Mounted Picker is economy itself with all the capacity necessary for corn-saving work. The No. 101, wagon, and tractor steer as a single, easy-to-handle unit. The No. 101 is easy to attach and detach and easy to adjust—costs less to maintain.

No. 226 Two-Row, Mounted Picker

Large-acreage corn growers and seed corn growers find the John Deere No. 226 Two-Row, Mounted Picker is ideal. No corn is lost in opening up a field. Straight-through handling of the corn from the gatherers to the wagon assures corn-saving capacity and less shelling.

See your John Deere dealer for complete details or write for free, descriptive folders.



At Top—John Deere No. 200 Two-Row, Pull-Type Picker.
Above—John Deere No. 101 One-Row Picker.
Below—John Deere No. 226 Two-Row, Mounted Picker.

John Deere

Moline *Illinois*

Nothing can Compare with the

IOWA STATE FAIR

AUG. 26-SEPT. 2

DES MOINES

AMERICA'S MIGHTIEST

FARM and LIVESTOCK SHOW...

Hailed from coast to coast as America's greatest. Thousands upon thousands of exhibits. Acres and acres of wonderful things to see and do, for 8 fascinating days and nights.

HUGE NATIONAL LIVESTOCK SHOW

Aristocrats of the livestock world on parade. Ribbon-winning horses, cattle, swine, and sheep. Nearly 7,000 champions from the finest herds and flocks of the nation.

TREMENDOUS FARM EXPOSITION

Hundreds of exhibits in the All-Iowa Corn and Grain Show. Fruit and Vegetable Show. Farm Gadget Show. "What's New in Farming." Champion G. I. Farm Contest. The finest products in marvelous prize displays.

IOWA WOMEN'S EXPOSITION

Two buildings filled with new exhibits, demonstrations and programs by and for Iowa women. Homes show, flower and garden show, sewing, culinary, canning, fancy work, baby health, continuous programs.

4-H & FFA FAIR

Nearly 3,000 Iowa boys and girls competing for farm championships. 2,000 head of junior livestock. Farm demonstrations, exhibits, and contests galore.

CHILDREN'S DAY

Friday, August 26
Boys and girls free.
Big, free jamboree in grandstand.

40 ACRES OF FARM EQUIPMENT...

ELSIE THE COW and her famous son in their own "bovine boudoir."

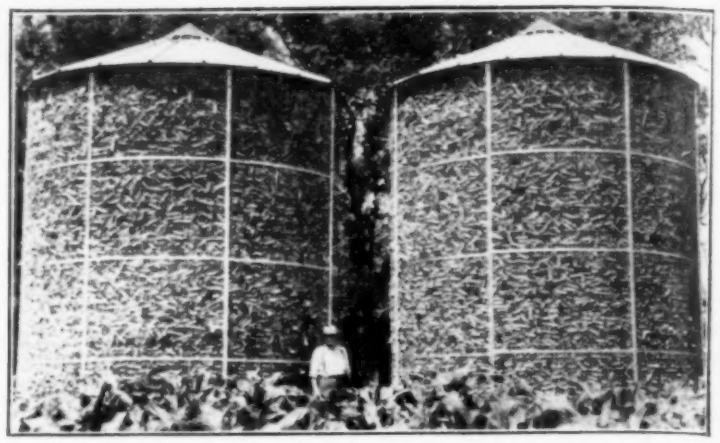
HARNESS & SADDLE SHOWS America's finest show horse stables competing for over $14,000.00 in prizes.

SHETLAND PONY SHOW Free pony to some Iowa boy or girl.

Plus! Airplane Show. Horseshoe Pitching. Iowa Quiz Derby. Draft horse contests. Art Salon. Photo Salon. Fish & Game. Hall of Science. Thousands of other things to see.

CAMP OUT! 125-acre free camp ground.

PLAN YOUR STATE FAIR HOLIDAY NOW!



Corn grown in Buena Vista county, Iowa, is piled high in the cribs of George Bruns. But what will he do with this year's crop? Should he feed cattle? Or hogs? Or buy more cribs and seal his corn?

INSIDE STUFF

LAST MONTH, I flew to New York and Washington to ask about business prospects and about farm legislation. Who's going to eat those extra hogs we'll send to market this fall?

▲▲

I FOUND CORN weather—steamy and hot—in New York's canyons. And some hopes about a fall business revival.

▲▲

MAIN QUESTION is about business plans for investing in new plants and equipment. If business spends money freely this fall, things will pick up.

▲▲

"HOW MANY unemployed in September?" I asked one expert. He guessed around five million, but hoped for less in October.

▲▲

FOLKS WERE LESS scared, more hopeful than a few months ago. More were betting on a fall upturn. But nobody was very sure.

▲▲

CHIEF JUSTICE Vinson was on my plane out of New York for Washington. I hadn't seen him since he was a wartime co-ordinator of practically everything on the home front.

▲▲

VINSON has a long, horse-like face; is dew-lapped like an old bull. Very watchful, knowing, alert eyes. I understand he plays poker. He should do well at it.

▲▲

IN WASHINGTON, they told me that the Farm Bureau had just put on an Iowa-type demonstration. They brought in a bunch of state leaders to talk to congressmen.

▲▲

ACTUALLY, farm legislation is badly mixed up. The house is likely to wind up with one bill; the senate with another. Things don't look too good for anything that will help farmers.

FROM THE OLD days, I remembered that the office of the secretary of agriculture is usually busy, even when everybody else shuts up shop. So I went over to the department on Saturday morning.

▲▲

I ASKED the guard to call the secretary's office and ask for Wes McCune, assistant to the secretary. Somebody at the other end of the line said to come up.

▲▲

WHEN I GOT upstairs, Brannan came out. "Wes is taking Saturday off," he said. "I sent him home. Maybe you can ask me what you were going to ask him."

▲▲

I DID. Brannan talked about the difficulties of getting agreement on farm bills. He was a little discouraged.

▲▲

BRANNAN looks tired, as he has the right to be. He was working that day on state wheat allotments. That's no rest cure, either.

▲▲

WHAT ABOUT HOGS? All I can guess is that with four or five million unemployed, there won't be the demand for hogs we had last fall. And there'll be more hogs.

▲▲

WORST NEWS I got was that congress had about decided to leave hogs out of any plans for production payments. That can make trouble.

▲▲

ONE MORE travel item: At the Metropolitan Museum, in New York, I saw a statue of an Egyptian cat and kittens, about 600 B. C. They look like your barn cats, except their ears stick up more. Like a bob-cat's or a Berkshire's.

▲▲

I LEFT WASHINGTON at six, eastern standard time, and was home by midnight, CST. I'm still surprised at speed like that.

DONALD R. MURPHY

WALLACES' FARMER AND IOWA HOMESTEAD
(Volume 74—Number 15)
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The HUMBOLDT Stalk Cutter is the machine they are all talking about. It's the **original** power-driven stalk cutter that chops, shreds and pulverizes the old corn stalks and spreads them evenly over the field.

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No more empty tanks — no long walks — no long walks back to the fuel tank. Get the **new Humboldt Gauge** and be **sure!** Get one now at your dealer's or write direct to the factory. See it at the Iowa State Fair. Models for nearly all tractors.

Only $4.90

CUT THE STALKS—PLOW THEM UNDER

For better Corn Borer Control, cut the stalks and plow them under. The Humboldt Cutter action lets your plow bury deep in the ground all the corn borers not killed in the powerful vertical thrashing action of the cutting knives or swinging hammers. Corn Borers **can't** survive under the earth. Also enriches the soil by burying **all** of the stalk pieces and remnants deep in the ground. 90 Day Guarantee against faulty workmanship and materials.

SEE YOUR HUMBOLDT DEALER

Ask him to explain and demonstrate the Humboldt Stalk Cutter. Or write the factory for new colorful circular, prices and corn borer information. When writing the factory address Dept. W-8. Also manufacturers of the Humboldt Hydraulic Loader, Humboldt Tractor Wheel Mud Cleaners and Humboldt Disc Transports.

IOWA STATE FAIR VISITORS

Visit our exhibit at the Iowa State Fair, south of the Varied Industries Building. FIRST SHOWING, Humboldt Mounted Cutter for Ford and Ferguson Tractors.

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ENGINEERED to handle big loads with the speed that's needed in these fast-moving days of high-speed tractors, 2-row pickers, combines and balers. Takes all the time-stealing hard work out of storing your crops. No calloused hands or aching back • Wide clearance for all baled crops. Elevates the new, bigger ears of hybrid corn without crowding or shelling. Also chopped hay, silage, bags, etc. • Built bigger and stronger to work faster and last longer. Rust-resisting galvanized steel construction, lasts for years • Store your crops the fast, modern way. Choose the new, big-capacity KEWANEE. Don't send a boy to do a man's job. See your KEWANEE Dealer *today* and get all the facts on America's No. 1 Farm Elevator.

Kewanee Machinery & Conveyor Co., Kewanee, Ill.

Largest Capacity Elevator Built

New Hydraulic Hoist

Speeds unloading of big trucks and wagons. Built-in Speed Jack operates elevator and hoist simultaneously • It's KEWANEE engineered.

Write for Catalog

Truly Portable—Moves in Minutes

Easy to move from crib to crib or from farm to farm. Backs into position in a "jiffy" • Strongest-ever supporting Derrick. Holds the boom rigidly at any elevation.

Kewanee Portable Elevator

TOPS FOR EAR CORN, BALES AND GRAIN

Lardy Hogs May Place Low

Winners In Breeding Classes Forecast Future For Iowa's Commercial Hog Men

THERE may be herdsmen or breeders who aren't interested in the farmer boar business. But most of the purebred swine exhibitors at the Iowa State Fair are vitally interested in the commercial pork producer.

And, as the ribbons are tied in the swine show and breeders look at the top boars, they will have a mind's-eye picture of the kind of barrows which the winners will sire.

In that way, the judges at the Iowa State Fair help set the pattern for hog production in Iowa. It's a pattern that has been working toward thicker loins, deeper hams, long and deep sides of bacon and an absence of waste. It's a pattern of thrifty, rapid gains; of maturity and finish without a lot of lard.

It's at the fair that farmers get an idea of the "right kind" of hogs for next year.

And, in reverse, the winners in the 1949 barrow show will give an idea of what kind of blue-ribbon boars were picked the last couple of years.

One thing is certain. There will be plenty of good hogs at the 1949 fair.

Entries in the Iowa State Fair's nation-wide swine show have shown a steady increase each year since World War II. Fair Secretary L. B. Cunningham expects a big increase this year—an increase that will bring the total number of hogs on display to more than 3,000 head.

Cash prize money for the hog show will exceed $18,000 this year. This includes major events open to swine raisers thruout the country, futurity events limited to Iowa entries, junior classes, and an expanded showing of market barrows.

Prize offerings in open classes for hogs include $1,120 each on Poland Chinas, Duroes, Chester Whites, Spotted Poland Chinas, Hampshires and Berkshires; $760 on Herefords and $216 on Tamworths.

Breed associations will provide nearly $6,000 in prizes, in addition to State Fair premium money.

Futurity events, exclusively for Iowa farmers, offer $800 each on Poland Chinas, Duroes, Chester Whites, Spotted Poland Chinas, Berkshires and Herefords, with $675 on Hampshires. The Spotted Poland China show will have a $1,000 junior futurity for exhibitors under 21 years old, and $163 in special classes.

The market barrow show will really be a big one. Barrow prizes total $3,678. There are classes for Poland Chinas, Duroes, Chester Whites, Spotted Poland Chinas, Hampshires, Berkshires, Herefords, crossbred or grade market barrows.

Judges for the big show have been selected from the ranks of Iowa breeders, packers and swine men from Iowa State College.

In the purebred classes, W. C. Anderson, West Liberty, will work the Poland Chinas, and Harold Wehrman, Belle Plaine, the Berkshires. Prof. A. L. Anderson, Ames, will again place the Spots and the Herefords. The Plager brothers—Carroll, of Austin, and Wilbur, of Des Moines—will tie the Duroc winners.

Leon Frantz, Grand Junction, will place the Hamps, and Warren Connor, Glidden, the Chesters. E. L. Quaife, Ames, will judge the Tamworths.

Judges for market barrow classes will be Allen Nash, Cedar Rapids, H. M. Meneough, Grimes, and A. L. Anderson, Ames.

How Stop Leak From Wooden Tank?

To the Editor: I have a wooden storage tank for livestock on the second floor of my barn. It leaks where staves and bottom come together. What would stop the leak?—S. T., Crow Wing County, Minnesota.

A common way to stop a leak in a wooden tank is to stir one or two pounds of oatmeal into the water. When the water leaks out thru the small cracks, it will gradually close them up. Clay mixed into water acts the same way.

If the leaks are larger, so that water runs out in a stream, you may have to drain the tank. Then you can apply roof putty where you can see the leaks.

STATE FAIR SWINE JUDGING

SWINE BARN

MARKET BARROWS: 1 p. m., Friday, August 26.
POLAND CHINAS: 8 a. m., Monday, August 29.
BERKSHIRES: 8 a. m., Monday, August 29.
TAMWORTHS: 7 p. m., Monday, August 29.
CHESTER WHITES: 8 a. m., Wednesday, August 31.
DUROC JERSEYS: 8 a. m., Tuesday, August 30.
HAMPSHIRES: 8 a. m., Tuesday, August 30.
HEREFORDS: 7 p. m., Tuesday, August 30.
SPOTTED POLAND CHINAS: 8 a. m., Wednesday, August 31.

(For Junior Swine Judging, See Page 42)

You study the pedigrees of the animals you select to improve your herd. You look for proved sires and proved dams, proved boars and proved gilts. That's the kind of bloodline breeding all farmers know and recognize. We follow the same program in developing our Maygold Hybrids. Proved inbreds are mated and crossed with care and exactness. Each profit making quality is bred into Maygold Hybrids with scientific certainty.

Whether it's in livestock or corn—

Bloodlines MAKE THE DIFFERENCE

EARL MAY MAYGOLD

Bloodline Bred HYBRIDS

THUMPING BIG YIELDS . . . Maygold Hybrids have the **extras** of fine breeding to turn out the **extra** bushels per acre year after year. You'll crib more corn, bank more money when your fields are Maygold planted.

RUGGED, RIGID STALKS . . . Maygold Hybrids have an anchor-like root system that holds deep and wide in the soil. Their natural, rugged strength keeps Maygold stalks standing straight and strong at picking time.

DEEP KERNELS, BIG EARS . . . You'll brag about the large ears filled clear to the tip, with kernels deep and full. The high shelling percentage will prove again your good judgment in planting Maygolds.

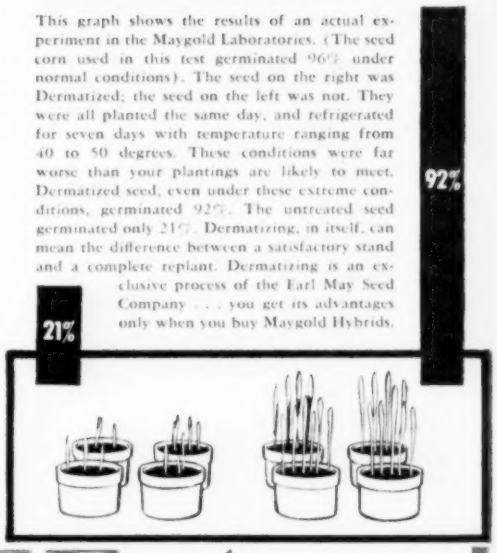
RICH IN FOOD VALUE . . . Maygold Hybrids put every last ounce of weight and feeding value into each ear because they stay green to fully ripen every ear.

UNIFORM PERFECT STANDS . . . Maygold Hybrids have the fight to live, to grow, to reach maturity in shorter time.

PLANTER TESTED GRADES . . . One kernel is just like another. Bag after bag carries the same precision grades. Finest precision machinery assures this exact uniformity. Eliminates time losing stops and starts . . . your planter clicks right along.

ONLY MAYGOLD HYBRIDS ARE DERMATIZED

This graph shows the results of an actual experiment in the Maygold Laboratories. (The seed corn used in this test germinated 96% under normal conditions). The seed on the right was Dermatized; the seed on the left was not. They were all planted the same day, and refrigerated for seven days with temperature ranging from 40 to 50 degrees. These conditions were far worse than your plantings are likely to meet. Dermatized seed, even under these extreme conditions, germinated 92%. The untreated seed germinated only 21%. Dermatizing, in itself, can mean the difference between a satisfactory stand and a complete replant. Dermatizing is an exclusive process of the Earl May Seed Company . . . you get its advantages only when you buy Maygold Hybrids.



32 EARL MAY STORES TO SERVE YOU

If you live near an Earl May Store, you'll find it a "one stop" service station for ALL your farm seed needs. You will be better served and better satisfied if you plant Maygold farm seeds.

Hundreds of "Neighbor" Representatives

Chances are, you personally know the Earl May representative in your community. He's your neighbor and a corn farmer like yourself. He's prepared to give you real help in the selection of the right type of Maygold Hybrid for your locality.

EARL MAY SEED CO.
SHENANDOAH, IOWA

Specialists in seed corn for 30 years

Get both books FREE *for the asking*

Beautiful catalog gives breeding and performance facts behind Maygold Hybrids, describes available strains and gives valuable planting information. In addition, we will send Special Booklet on Guatemalan Corns. Our interest in Guatemalan corn goes back to 1945 when our founder, the late Earl E. May, made a generous grant to Iowa State College at Ames, Iowa, for the purpose of conducting basic research in Guatemala, the land where corn was born. As a result of this grant and donations from other sources, the Tropical Research Center was established. Booklet shows pictures of many interesting types of Guatemalan corn, tells of the experiments being made at Antigua, and of the work Maygold Plant Breeders are doing with Guatemalan strains in this country.

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SHENANDOAH, IOWA

Gentlemen:

Please send me your Hybrid Corn Book, the special booklet on "Guatemala, The Land Where Corn Was Born."

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CRESTON 129 North Pine St.
DENISON 1326 Broadway
DES MOINES 2nd and Walnut
FORT DODGE 508 Central Ave.
HARLAN 607 Court St.
MARSHALLTOWN 25 South Center
NEWTON 117 West Second, N.
OSKALOOSA 120 First Ave., E.
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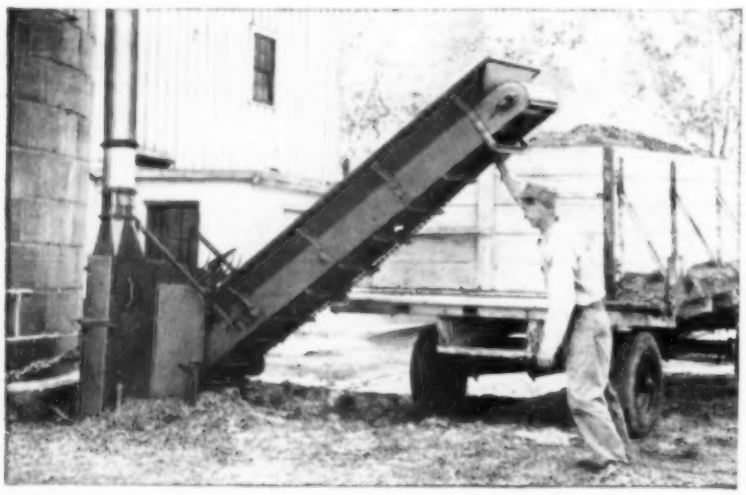
SHENANDOAH 106 Elm St.
SIOUX CITY 410 Pearl
WASHINGTON 207 South Marion
WATERLOO 312 West 4th St.
WEBSTER CITY 723 Second St.

Fill Your Silo with { Less Work / Less Time / Less Cost

McCORMICK No. 2 ENSILAGE HARVESTER

One man is the whole field crew when you use this ensilage harvester. It cuts your silage crop, chops it, and blows it into a wagon or truck. No more lifting heavy bundles—or seeing your crop pass its prime while waiting for help. And your silage has higher feeding value, because you get it into the silo only a few minutes after it's cut. Valuable nutrients are saved. See your IH dealer. He can arrange convenient terms.



McCORMICK No. 2 ENSILAGE AND FORAGE BLOWER

You spot loaded trucks or wagons quickly at this blower. Just raise the conveyor and drive straight through. Lowered again, the 9-foot by 30-inch conveyor spans the widest truck, catches hand- or power-unloaded silage without spilling. Driven by a Farmall H, it will handle up to 15 tons of corn silage an hour. Will blow chopped hay or straw into a mow, too. Your IH dealer has it.

INTERNATIONAL HARVESTER

180 NORTH MICHIGAN AVE., CHICAGO 1, ILLINOIS

Be sure to visit the International Harvester Exhibit at the IOWA STATE FAIR, August 24th through September 2d.

Visits to the Iowa State Fair are planned by these farmers from Winneshiek county, Iowa. Brothers Elmer (left) and Willard Dresselhaus want to see the dairy cattle and farm machinery on exhibit. Willard is also looking forward to seeing the platform acts.

Test Moisture In Corn To Be Resealed

Here Are Points To Watch When You Shell Corn To Be Resealed In Bins

IF YOU are thinking of sealing shelled corn under the government resealing program, check up on the rules before you shell the corn?

The government promises certain things. You are to get 10 cents per bushel storage fee when the corn is delivered in payment of the loan.

You can get a loan to build or buy a bin or crib. The loan can equal 85 per cent of the cost. But the loan may not exceed 45 cents per bushel of capacity.

But there are certain requirements that your corn must meet. And there are certain precautions that should be taken when the corn is shelled.

Corn Must Be Dry

Corn to be sealed as shelled corn must not have more than 13½ per cent moisture. This moisture limit will be checked and enforced.

Most corn will meet the moisture test without trouble. But corn in driveways, corn in round cribs, or corn under poor roofs might be too wet to seal as shelled corn.

You can probe the corn and get the moisture tested at the AAA office before the shelling is done. This precaution should be taken if there is doubt about the moisture content.

Corn Must Grade

Corn must grade No. 3 or better if it is to be sealed as shelled corn. This is on points other than moisture content.

No. 3 corn must weigh at least 51 pounds per measured bushel. It must not have more than 4 per cent cracked kernels and foreign material; heat-damaged kernels must not exceed one-half per cent, and total damaged kernels must not exceed 7 per cent.

Corn grown in 1948 was high quality. There will be little trouble about most corn meeting the No. 3 grade. But samples should be tested from the first loads shelled as a safety measure.

Pointers On Shelling

You can affect the moisture content and grade of the corn by certain precautions when shelling.

If the moisture content is near the limit, the corn should not be shelled during a spell of rainy weather or on a cloudy, damp day. Corn will pick up moisture if handled when weather is damp. It will lose moisture on dry days.

Corn to be resealed should be well cleaned when it is shelled. Ask the sheller operator to make careful fan adjustment.

Dirty corn will result if you scoop up corn mixed with trash and throw it in the sheller when cleaning up. This may reduce the grade of the corn or cause spoilage. Hogs can beat the sheller in separating corn from trash.

Must All Be Resealed?

You can reseal a part of a crib of corn and keep some of the corn for feeding if you wish to do so. But you can not seal more corn than you have under contract.

For example, if you have a sealed crib, and the loan is on 2,500 bushels, you could buy a 1,000-bushel bin, reseal what the bin would hold and keep the rest.

You would have to repay the loan on the 1,500 bushels, of course. The payment would be credited on the old note.

But, if your crib had 2,700 bushels of corn in it, you could reseal only 2,500 bushels.

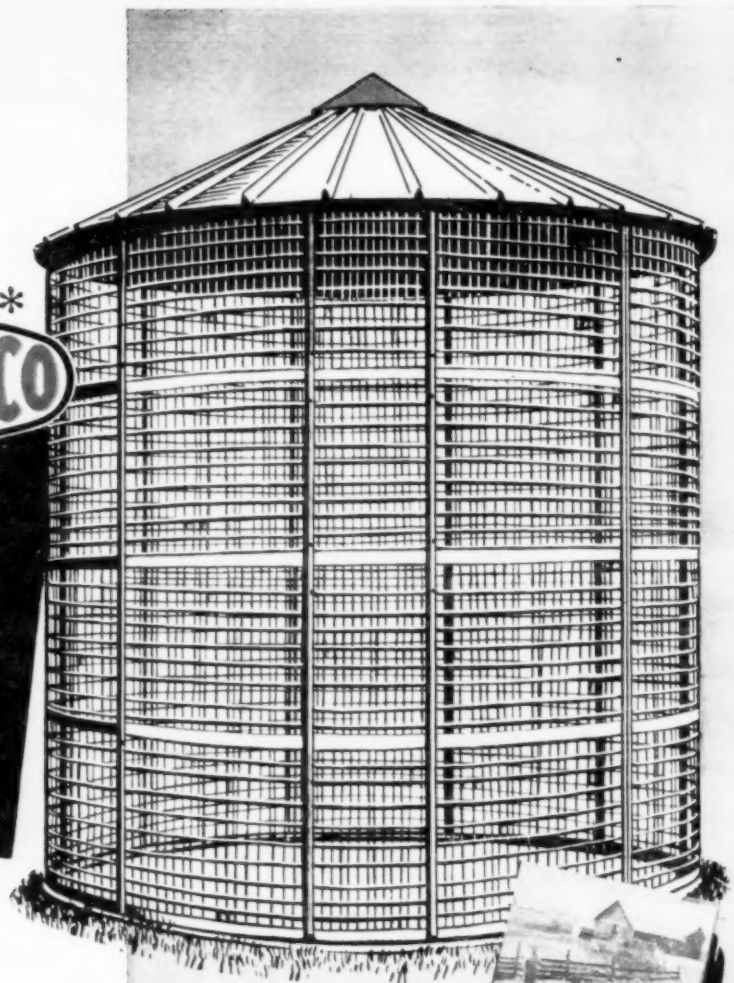
Is There Another Way?

Corn can be resealed in the cribs as ear corn. Then you could provide new cribs for the new crop. But, if you seal shelled corn, the above rules and precautions should be observed. See your county AAA for more details.

CARLSON CHAMPION

CORN CRIBS by HABCO*

THE CRIB THAT IS CAPTURING THE HEART OF THE CORN BELT



Buy the corn crib that will make you money! Buy the crib that will SAVE you money, year after year. Place your order today for the CARLSON Champion Crib, the Crib that has captured the corn belt. Manufactured by HABCO, the Carlson Champion Crib features the famous BUTLER All-Steel roof, with reinforced manhole on one side for easy filling from an elevator. Galvanized five gauge bar mesh reinforced with angle iron at proper spacing assures long life and many years of good service.

ORDER CARLSON CRIBS, VENTILATORS & TUNNELS NOW!

Get set for "on-the-farm" storage with approved CARLSON Cribs by HABCO. Take no chances with piling corn on the ground or storing in improper, inadequate cribs. And while you are ordering Carlson Cribs, be sure to order tunnels and ventilators to insure proper storage conditions. Carlson Crib Ventilators and Tunnels are standard and may also be purchased through your Carlson Dealer. To assure "on-time" delivery and to insure full government support price, get your order in at once. See your CARLSON dealer or mail in this handy coupon TODAY, for complete details, prices.

Contact Your Nearest Carlson Dealer Immediately

EASILY ERECTED

No extra work or special tools are required to erect the CARLSON Crib.

The sections fit easily together and the entire operation of erecting the crib is done quickly.

The BUTLER roof comes in sections and is installed in much the same way as the side sections. Regular roof sections are bolted to each side of the manhole section after they are lifted into place.

Once erected, the CARLSON Crib will STAND UP through many years of use for profitable storage. Complete, easy-to-understand instructions accompany each crib.

RUSH THIS COUPON Today!

SPECIFICATIONS:

Two sizes, 1000 and 1600 bu. Model 14B2 is 14 ft. across, 16 ft. high. Model 18B1 is 18 ft. across, 16 ft. high. WALL SECTIONS are five gauge galvanized bar mesh 2" x 6" spacing, fastened to 70" wide framing of 1½" x 1½" x ⅛" angles and five ⅛" x 1½" bands. Angles are punched at 6" centers for bolting with 5/16" machine bolts and nuts. DOOR SECTIONS have same construction as wall sections, 3' wide. Bars 1/4" x 1¼" reinforce doorway at 4' intervals. ROOF is famous BUTLER galvanized metal bin roof with cone cap on 22½" diameter opening and one reinforced manhole on side of roof.

MANUFACTURED BY

***HABCO MANUFACTURING CO.** COLUMBUS, NEBR.

Carlson Hybrid Corn Co., Audubon, Iowa

WF-9

Rush details, prices on ..... Carlson 1,000 bu. ☐
Champion Cribs—By HABCO 1,600 bu. ☐
Also send information on tunnels, ventilators ☐

My name is .....

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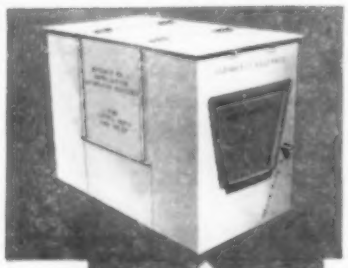
FOR PROMPT REPLY AND FASTER DELIVERY, PLEASE FILL OUT AND PASTE THIS COUPON ON A POSTAL CARD AND MAIL TODAY!

Guaranteed RITCHIE WATERERS Mean Greater Production



No. 5 Combination Waterer. Fully Automatic. Waters 600-100 cattle, up to 150 sows. Larger size available.

Automatic Poultry Waterer. Two removable drinking pans for easy cleaning. Easily connected to pipeline.

CHECK THESE FEATURES

- Proved by 27 years' experience . . . NOW IMPROVED
- All electrical heating equipment tested 4 years and guaranteed.
- Available for pipeline or tank installation.
- Fresh water supplied at correct temperatures year 'round.
- Unnecessary to remove heating units during summer months.
- All steel welded construction for lasting service.
- Guaranteed against breakage.

Farmers! Increase your livestock and poultry production. Use the **BEST** in watering equipment. Use **RITCHIE GUARANTEED WATERERS** for every need. Several different models, with automatic electric or oil heat. Correct water temperature always assured with sealed-in heating units. Both single and combination watering units available.

Ritchie famous "frost-proof" yard hydrants are simple, economical, and efficient. **WILL NOT FREEZE!** Provide water anywhere—in the yard, barn, hog house or poultry house—**EVERY** day of the year. Any desired water flow obtained with handle. Wall hydrants also available.

SEE THE RITCHIE LINE at the IOWA STATE FAIR

South Side, Varied Industries Bldg., under canopy

DEALERS

Still a few choice territories available for ambitious dealers to handle quality merchandise. Inquire today!

Mail Coupon Today--or See Your Ritchie Dealer

RITCHIE MFG. CO., Conrad, Iowa
Please send me immediately free literature and information on the famous Ritchie:
☐ WATERERS ☐ FROST PROOF HYDRANTS
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Farmers-Truckers

BUY DIRECT IMMEDIATE DELIVERY!

Save Time... Save Work...Save Money

HIGH SPEED One-Man STURDY STEEL ELEVATOR

HANDLES APPROXIMATELY 500-800 BUSHELS PER HOUR STURDY STEEL CONSTRUCTION

$139.50

Save up to $30

End the slow back-breaking strain of shoveling from the ground into high hard-to-reach trucks, cribs, bins. The *very low-cost* high-speed One-Man Elevator will carry your products up to the highest truck or bin many times faster and easier than with present hand shoveling methods. It handles approximately 500-800 bushels per hour of all types of small grain. The One-Man Elevator will do the job much faster and easier than ever possible by hand. Sides and end-plate of hopper are removable for placing directly into grain to eliminate shoveling.

RUGGED STEEL CONSTRUCTION

The One-Man Elevator is rugged—made of heavy 18-gauge steel, has heavy-duty roller bearings throughout. Wears like the steel it is—doesn't tear, doesn't show wear. Operates efficiently with sturdy Clinton Gas-engine, 1½ H. P., 4-cycle, air cooled, or with ½ H. P., 110-220 Volt Electric Motor (both optional). No gears to worry about. No unloading to start motor. Elevator complete with belts and pulley.

Comes in 3 standard lengths—16, 20, 24 feet. Operates at any angle up to 60°. Will load or unload. Built for truckers, small farmers, large farmers, stock farmers, feed grinders, cotton ginners, rice planters.

HUNDREDS OF USES

Handles corn, soy bean, rice, small grains, cement, lime, fertilizer, bulk feeds, sand, coal, earth or any one of hundreds of other products.

NO FREIGHT CHARGES! SATISFACTION GUARANTEED OR YOUR MONEY BACK

Send No Money. Just fill out the coupon below, mail it, and we will ship it to you immediately. Comes completely assembled, ready for use. Crated in wooden boxes. No freight charges. ORDER TODAY and your loading problems will be a thing of the past. You can't go wrong!

DELIVERED PRICES— YOU PAY NO FREIGHT

One-Man Grain Elevator—16 ft.	$139.50
One-Man Grain Elevator—20 ft.	159.50
One-Man Grain Elevator—24 ft.	179.50
1½ H. P. 4-cycle Gas Engine CLINTON (Opt'n'l)	60.00
½ H. P., 110-220 Volt Electric Motor (Optional)	45.00

Allied Direct Supply Co., Dept. A.
15 North Meramec, Clayton, Missouri

Gentlemen: Send me IMMEDIATELY the following item(s) PREPAID.
One-Man Grain Elevator . . . ft. at $. . . . .
1½ H. P. Clinton Gas Engine (opt.) 60.00
½ H. P. Electric Motor (optional) 45.00
I agree to pay the amount specified on delivery ( ). Enclosed is my check ( ).
Check one.
Can be shipped by truck ( ) or Rail ( ).
Check one. PRINT NAME
Name.....
Address.....
Town..... State.....
Specify Destination Point.....

DETROIT PUBLIC LIBRARY

Ever Stop to think how much electricity has done to make living better? This Boone county, Iowa, farm family wouldn't know what to do without lights, radio, stove, other electric gadgets.

Let Kilowatts Do Your Work

Highline Users Find Electricity Means A Higher Income As Well As Better Living

HOW'S this for a perfect hired man: Works for $10 to $15 a month, doesn't sleep or eat, and never gets tired. And, for a nickel, he'll milk 50 cows or pump 1,000 pails of water or shell 75 bushels of corn.

Sound crazy? Well, nine out of ten Iowa farmers have just that kind of hired man. Because that's what one kilowatt-hour of highline electric power will do.

The catch is that not all farmers keep their electric hired man busy. To really make the old boy pay off, says Doane Agricultural Service, you need to work him hard enough so you've got time to handle another cow, a few more sows or a hundred more hens.

That's easy to do, too, Doane says. A check of the figures on use of electricity shows that:

An electric pig brooder saves 1½ more pigs per litter. Lights in the hen house, plus electric water-warming, mean 11 to 19½ per cent more eggs. An electric water system will add 5 to 10 per cent more milk.

Farm families who are using highline power to boost their volume—not just as a luxury—have learned that electricity is a mighty cheap source of power. Quoting Doane again, here's what it costs for sample jobs:

You can ventilate your dairy barn for a nickel per cow a month. You can grind feed for a penny per 100 pounds, and pump water for 30 to 40 cents per month.

Most farm families with electricity now figure they can afford that kind of money just to make living better. But a lot of them are going one step farther. They have discovered they can recover the cost—and then some—by using the time saved to increase output.

Electricity can boost farm income by giving you time to increase your output. Think how much more milk these Hamilton county, Iowa, folks can sell because they're using electric milkers.

State-wide Electric Expansion Program

ADDS 310,000 H.P. to Iowa's Power Supply

It Means More Work-Saving, Income-Producing Electric Power for Iowa Farms, Homes, Factories . . . Better Living for All

● Through the years, electricity has added much to advancing the standard of living in Iowa. Each year, electricity serves additional farms, offices and factories. And each year existing customers of the electric companies demand more and more power.

More Power—More Plants

To assure an adequate and dependable supply of work-saving electric power, the business-managed utilities of Iowa have been investing huge sums of money to build new plants, expand their existing plants with added generating capacity and to build additional lines.

Present plans call for investing $51,577,146 within the next two years so that 231,000 additional kilowatts (310,000 horsepower) can go to work in Iowa. This program calls for 850 miles of additional high-voltage transmission lines—all to be completed by the end of 1950.

Farm Families Benefit

A large percentage of this expenditure is being used to bring more electricity to farm customers who are served directly by these companies and indirectly through the electric cooperatives. All communities served by the business-managed electric companies of Iowa will benefit from these new generating and distributing facilities and from the resulting increase in taxes which these communities will receive.

A TIMELY MESSAGE FROM

THE ELECTRIC COMPANIES OF IOWA

PIONEERS IN RURAL ELECTRIFICATION

CENTRAL STATES ELECTRIC CO.
PEOPLES GAS & ELECTRIC CO.
INTERSTATE POWER COMPANY
IOWA ELECTRIC COMPANY
IOWA ELECTRIC LIGHT & POWER COMPANY
IOWA-ILLINOIS GAS AND ELECTRIC COMPANY
IOWA POWER & LIGHT COMPANY
IOWA PUBLIC SERVICE COMPANY
IOWA SOUTHERN UTILITIES CO.
NORTHWESTERN LIGHT & POWER COMPANY

ORIGINAL ENDERES **STALK SHREDDER**

FIELD TESTED PROVED

List Price $389.00 FOB GUTTENBERG, IOWA

SHIPPING WEIGHT 645 POUNDS

COMPLETELY SHREDS
- CORN STALKS
- COTTON STALKS
- POTATO & OTHER VINES
- WEEDS

FEATURES
- Adjustable Height
- Semi-Pneumatic Tires
- Cushioned Belt Drive Hammers
- Rugged Welded Construction
- Reversible Hammers Easily Removed

– Specifications –

FRAME:

3 inch, 4.1 lb. structural channel steel throughout. Heavily electric welded at all joints.

HOODS:

Made of steel plate for full protection against flying debris. Secured in position by bolts to facilitate removal for access to rotors.

ROTORS:

Each rotor supplies 24 steel hammers at 5 lbs. x 1 1/4 x 6 inch steel, swung from 3/4 inch die forgings shafts mounted in 1/4 inch thick rotor plates. The shaft is mounted on 1 1/2 inch cold drawn steel supported by self-aligning sealed ball bearings.

DRIVE:

Rotors are driven by 2 V-belts each from pick shaft powered by a heavy duty transmission coupled to tractor P.T.O. by conventional universal P.T.O. shaft. All bearings self-aligning, sealed ball bearings. Shaft guards etc. bonded, for safety.

TONGUE AND HITCH:

3 inch, 4.1 lb. channel iron and 1/8 inch steel plate formed and welded electrically. Designed to fit all tractors.

WHEELS AND SUPPORTS:

Have 4 inch semi-pneumatic tires on roller bearing wheels mounted on yokes which are crank adjusted from tractor seat to regulate the height of the rotors from the ground.

OPERATING SPECIFICATIONS:

Rotors revolve 2,000 R.P.M. at 540 R.P.M. tractor P.T.O. speed. Rotors cut 18 inch swath on 40 inch centers. Height adjustable from ground contact to 6 inches above the ground.

DIMENSIONS

Overall height—82 inches
Overall width—81 inches
Overall height—42 inches
Total weight—645 pounds

Original **ENDERES** *Company*
GUTTENBERG, IOWA U.S.A.

Borer egg mass count stood at 125 per 100 stalks when Jim Cain, Webster county, Iowa, gave his early corn a shot of DDT. Increasing borer problem has stepped up the use of chemical controls.

Spraying Routs Crop Pests

New Chemicals Prove Valuable In Fight Against Variety Of Destructive Insects

IN 1948, sweet clover didn't do well in many sections of Iowa's Missouri river bottoms. And sweet clover is important there.

Farmers generally agree that a crop of sweet clover plowed into the heavy black soil adds 20 bushels or so to the next year's corn crop.

Yet, Carl Nikolaison, for example, sowed 200 acres of sweet clover in small grain in 1948, and hardly a spear grew. That kind of a loss was hard to take.

Much of the damage could be traced to the sweet clover weevil. So, in 1949, a few farmers, like Maurice Godsey, tried a DDT treatment for the sweet clover weevil.

Before agricultural chemicals and farm sprayers came into the picture, the weevil might have been allowed to go unchecked. Farmers and experiment station men would have searched for a new crop to replace sweet clover. But not now. Just give the weevil a shot of DDT.

In 1948, and again in 1949, cutworms caused serious corn damage in many areas in Iowa. Once again, farmers didn't take their losses lying down.

Even before Iowa State College had completed 1949 experimental tests with BHC, chlordane and toxaphene for cut-worm control, many farmers were experimenting on their own.

Folks like Bert Collison, in Harrison county, headed off the worm damage. Others who used no control measures replanted as many as three times. Collison used chlordane, and says that next year he won't be very worried about what cut-worms can do to him. Now he knows how to kill them.

Wire-worms can be controlled, too, with chemicals sprayed on the ground, mixed in the soil, or dusted on the ground. Or with chemicals mixed with fertilizer.

Grasshoppers have had a rough time this summer. Many of them didn't get to live to see much of the summer. Following the advice of chemical manufacturers and Iowa State College entomologists, farmers poisoned many baby hoppers.

Chlordane and toxaphene gave good results on both baby and adult grasshoppers.

Constant research does two things to help you in your fight against crop-destroying insects. Research improves present chemicals or brings out better new ones. And it discovers more uses for the chemicals that we already have.

One good place to check up on what's new in chemical insect control is at the Iowa State Fair. Makers of agricultural chemicals will be there exhibiting their products. So will manufacturers of farm sprayers.

These firms will have their own research men and their own entomologists at the fair, too. Visit with these experts. You will find them well posted on research within their own organizations—and they will also be well posted on research in the industry generally. They have to keep up with new ideas in chemical pest control.

Their equipment will be of interest. And you will have a chance to get your questions answered by experts. Or to obtain valuable literature to help you find the solutions to your own insect problems.

Temperature Affects Vitamin Needs

The temperatures in which they live may affect the feed requirements of hogs, University of Illinois tests show.

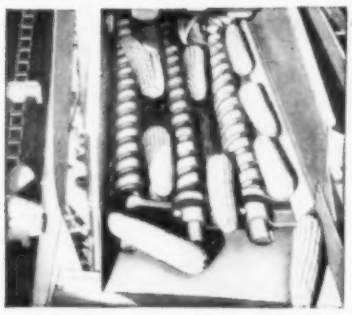
Pigs kept under controlled low temperatures showed a need for more riboflavin. Under high temperatures, they showed a need for more thiamin.

"America's Favorite Corn Picker"

FOR MORE PROFIT
FROM THIS YEAR'S CROP

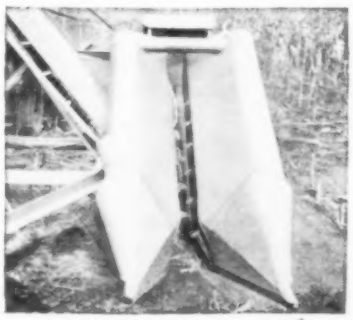
DEARBORN-WOOD BROS. *Corn Picker*

Dearborn
FARM EQUIPMENT



THE SECRET OF SPEED • CAPACITY AND CLEAN HUSKING

In any corn picker, look *first* at the husking bed! Corn passes through the Dearborn-Wood Bros. picker *fast* because the husking bed is *big*—13¼" wide, 37½" long. Not four but *six* rolls (3 rubber against 3 steel) husk thoroughly but gently. Famous for getting the silks and husks without shelling the corn, regardless of ear size or dryness.



GETS DOWNED CORN

Flexible floating gathering points, fully adjustable, catch high and low ears and downed corn. Points can always be kept centered on the row, even in rows as narrow as 26". Has three, not two, gathering chains.

This year reduce farming costs. Harvest your corn the modern, time-saving, labor-saving way . . . with a Dearborn-Wood Bros. Corn Picker.

This is the popular one-row picker that is ideal for corn growers and for custom picking too. It has unusual speed and capacity. Priced right, it saves its cost in a short time.

Built by Wood Bros. (a wholly owned subsidiary of Dearborn Motors), this picker is the result of fifty years of leadership in building harvesting machinery. It embodies many exclusive features that work together to pick fields better and faster and to deliver cleaner, undamaged ears. Easily adjusted to handle everything from popcorn to heaviest yielding hybrids, whether drilled, checked, bedded or ridged.

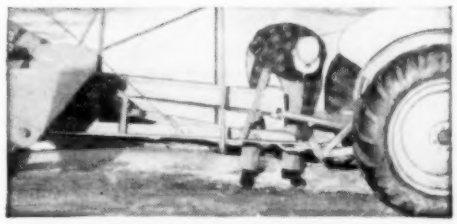
See your Ford Tractor dealer

The Dearborn-Wood Bros. Corn Picker works with other tractors besides the Ford Tractor. Sold, serviced by your Ford Tractor and Dearborn Farm Equipment dealer. See him for complete information, and delivery in time for your corn harvesting.

PICKS ROWS 26" WIDE OR WIDER

The trend is toward narrower rows, due to hybrid corn improvement, new fertilizing and other modern practices. 36" and even 30" rows are now common. If you want to narrow your rows, remember the Dearborn-Wood Bros. will pick any width rows, as narrow as 26". You are not tied to a picker that is "set in its ways" and may soon be outdated.

DEARBORN MOTORS CORPORATION
DETROIT 3, MICHIGAN



ATTACHED IN 5 MINUTES

Can be attached to the Ford Tractor in 5 minutes*, detached as quickly. Gets you started earlier; and you can shift quickly to other jobs, then back to picking corn.

USE IT WITH THE

Ford
TRACTOR

*Or WITH ANY 2-PLOW TRACTOR HAVING ASAE STANDARD POWER TAKE-OFF AND HITCH

*Adapter kit required, sold separately.

The only time that Counts is Working Time

COPYRIGHT 1949, DEARBORN MOTORS CORPORATION

Ford Farming MEANS LESS WORK . . . MORE INCOME PER ACRE

Timely PICKING...

means more corn in the crib

Timing is more important in corn picking than is generally realized. Yields are surprisingly higher when corn is picked promptly at the hard dent stage, while there is still life in the stalk from natural sap. Delay in picking, beyond this stage, may cut yields by as much as 10 percent.

With a home-owned two-row Corn Harvester, you can start picking the day your crop is ready. Its light weight, evenly balanced over the tractor drive wheels, enables you to resume picking sooner after a rain, and to continue working in soft fields where heavier machines mire down.

The long, sloping gathering snouts of the Corn Harvester glide gently under low-hanging ears or down stalks, lifting and guiding them to the snapping rolls. Adjustable shields protect ears from snapping rolls. Spring-steel husking pegs, set in rubber, strip the husks off cleanly. Shelling is reduced to a minimum.

The low, undermounted Corn Harvester is fully shielded for maximum safety, and the operator has clear, unobstructed vision. It can be mounted on your Model WC or WD tractor in less than 30 minutes.

CORN HARVESTER

ALLIS-CHALMERS
TRACTOR DIVISION • MILWAUKEE 1, U. S. A.

Midway ride gives 4-H-ers a thrill at 1948 State Fair. From left: Ann Shea, Clinton; Joyce Allerly, Mills; Club Leader Thelma Wendell, Clinton; Mary Hart, Palo Alto; Genevieve Keil, Iowa county.

You Can't Beat Fair For Fun

Races, Thrill Days, Circus And Big Musical Show To Headline Entertainment Program

"EVERY minute packed with fun and excitement." That's a pretty big order. But it's exactly what you'll find at the big 1949 Iowa State Fair, in Des Moines, August 26 thru September 2.

The entertainment program for this year's fair doesn't leave room for any dull moments. Here are a few of the highlights:

Two afternoons of big-car auto races—on Friday, August 26, and Sunday, August 28. For the first time, the State Fair races will be under national speedways sanction. That means some 40 nationally-famous drivers — many of whom haven't been seen before on the Des Moines track—will fight it out for more than $5,000 in purses.

A new feature on the race schedule will be events for stock cars, on Thursday, September 1. They'll be regular speed events, with well-known drivers at the wheels. But the cars themselves will be the standard models that everyone drives. A 100-mile national championship race will climax the afternoon.

More new headliners are promised in the two "Thrill Days"—Saturday, August 27, and Friday, September 2. Leading the list of 20 stunt men in a program of smashes and crashes will be Joie Chitwood, Hollywood movie daredevil.

Events include autos turning turtle at 60 miles an hour, flaming wall crashes, cars playing leapfrog over each other, a "human battering-ram" and many other hair-raisers.

Three days of double-feature horse races are on the schedule for the fair's second week—from Monday, August 29, thru Wednesday, August 31. More than 200 fast trotters, pacers and runners will race for $15,000 in purses. New-type starting gates will be used to eliminate all delays in getting each race under way.

Biggest evening event at the fair will be the "State Fair Revue of 1949." It's a two-hour musical show, starring stage and radio personalitites. A water ballet, Broadway beauty chorus, hippodrome stars, vocalists and vaudeville acts will be on the program. A big fireworks program will climax each evening performance.

Added to each afternoon and evening grandstand show will be a three-ring circus — trained animals, trick horses, trapeze performers, clowns, jugglers. Highlight will be two girls shot from a cannon at the same time.

The 10-acre midway again will be packed with shows and rides, many of them new. Midway features will include Hitler's bullet-proof car and the "world's tallest show girl."

There'll be dancing on the State Fair plaza every evening from August 26 thru September 2.

A major judging event that always provides fair visitors with a lot of entertainment is the big saddle and harness horse show. You can see it in the Livestock Pavilion on any of five evenings—Sunday, August 28, thru Thursday, September 1.

Iowa boys and girls will have an entertainment program of their own on the fair's opening day, Friday, August 26. That's the day the exposition opens its gates free to the youngsters for Children's Day.

There will be a kiddies' jamboree at 9:30 a. m., in the grandstand, with clowns, trained animals and other circus acts, plus daylight fireworks.

"We believe the fair this year will assemble more entertainment and fun features in one spot than have ever before been put together in the state of Iowa," says Fair Secretary L. B. Cunningham. "For young and old, for farmers and city folks alike, it's going to be truly an all-Iowa holiday."

NEW LOWER PRICES!

BRAND NEW

FORD Bonus Built TRUCKS

Now! You can put a cost-saving Ford Bonus Built Truck to work for you at less cost than ever before! Cash in now on the highest trade-in allowances in Ford Truck history and on new lower prices announced recently on certain popular models.

Choose from over 150 Models!

There's a Ford Truck for *your* job, for *any* job. Over 150 models in all, from half-ton Pickups, up to the 145-horsepower BIG JOBS, biggest Ford Trucks ever built.

Immediate Delivery on All but a Few Ford Truck Models!

The "Seller's Market" is gone! We can make immediate delivery on many models. We can make delivery at pre-war speed on all but a few of our Bonus Built trucks.

We're Trading High!

We've boosted truck trade-in allowances sky-high. Our current sales goal of new trucks is bigger than it has been in years. We're ready to "deal." Phone us today to arrange for an appraisal on your old truck.

Ford Trucks Last Longer!

Ford Trucks are Bonus Built! They're built extra strong to last longer. Using latest registration data on 6,106,000 trucks, life insurance experts prove Ford Trucks last longer!

FORD 1949 Bonus Built TRUCKS 1949

BUILT STRONGER TO LAST LONGER

FORD DEALERS OF IOWA

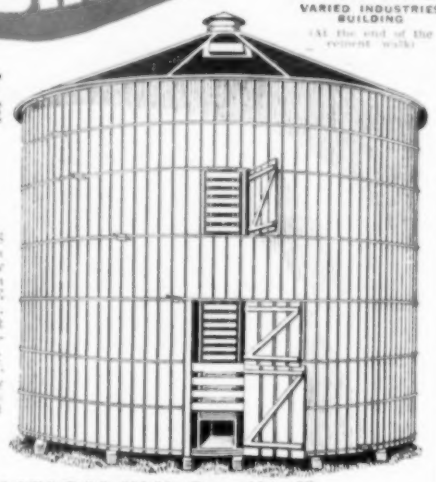
SEE CHAMPION Ready-Built CORN CRIBS

IOWA STATE FAIR
One Block South of VARIED INDUSTRIES BUILDING
(At the end of the covered walk)

LOW COST
LONGER LIFE

ORDER NOW
Immediate Delivery

CHAMPION CORN CRIBS are permanent, built to last a lifetime. They are scientifically ventilated—to keep your corn dry, clean, and bright. SAFE from rats and other damage. Shipped complete in ready-built sections. Easy to assemble—not to move. All sizes, 1000, 2000, 2500 bu., etc. "Greatest corn crib of all" say thousands of users. You will save when you see it at the Iowa Fair.



CHAMPION "Hi-Quality" GRAIN BINS

See this wonderful CHAMPION GRAIN BIN, too. At our State Fair Exhibit. Examine it, compare its great features. Champion Bins are permanent, leak proof, grain-tight. Cheaper, easier and better than building your own. All sizes, 500 bu. up. Remember SEALING ALONE PAYS FOR YOUR CHAMPION CRIB OR BIN.

40 YEARS OF PREMIUM QUALITY

Champion Cribs and Bins, Silos, Hog and Poultry Houses, Garages, etc., now built better than ever by Iowa's pioneer manufacturers of modern farm buildings. See us at the Fair, see your dealer or write us direct.

WESTERN SILO CO.
DEPT. W-8 WEST DES MOINES, IOWA

SAVE LABOR—SAVE MONEY
The Perfect Profit Combination
BOOSTER BUCK
It Bucks—It Loads—It Stacks

- Low in Price
- Stacks 22 Feet High and Higher
- Saves 30 to 50% in Time and Labor
- Fits Ford, Ferguson and Most Row Crop Tractors
- Daily Two Man Capacity 60 Tons and More
- Opens and Removes Hay From Stacks

Booster Buck operates from the tractor seat with only a lever or two. Even a woman or child can operate it.

Cantilever design transfers weight or stress to the tractor rear axle, thus eliminating front-axle overloads. Heavy loads can be quickly and easily handled, including bales and bundles.

Famous BOOSTER PUSH-OFF builds higher stacks and permits stacking hay on the windiest day—no scattering.

BOOSTER SCOOP
SAVES THE SPREADER

- Inexpensive Attachment For Booster Buck
- Famous Booster Push-Off
- Positive Mechanical Action
- Adjustable Gauge Control From Seat of Tractor
- Weight Well Distributed

The booster push-off unloading device enables the operator to push off as little or as much as he wishes without damage to spreader.

With simple change—entire unit will go through any opening that has clearance enough for tractor itself. Ideal for work inside barns.

Design is simplicity itself. Fewer working parts to get out of order coupled with exceptionally strong construction means that the BOOSTER BUCK and the BOOSTER SCOOP will give you lifetime service.

Write for name of nearest Booster Buck Dealer

BOOSTER BUCK MFG. CO., DUNLAP, IOWA

Washington Wire

Congress In Snarl On Farm Bill

Farmers Can't Tell What The Government Support Prices Are Likely To Be In 1950

WASHINGTON, D. C. — Congress has got itself in a snarl over farm legislation. Nobody can be sure now what will happen.

Here are the high points:

1. Senator Gillette's sub-committee in the senate has turned down production payments for hogs.

2. The Gore bill, extending 90 per cent of parity supports thru 1950, has passed the house.

3. The senate is trying to raise the Hope-Aiken support levels from the 60-90 range to 75-90 per cent of parity.

Senate and house are at loggerheads. Whatever bill results will have to be worked out in a conference committee.

Farmers will ask two questions: What happened to the Brannan plan? What happened to the Farm Bureau's drive to keep flexible supports in the law?

The Brannan plan was whittled down by the house agricultural committee into the Pace bill. This bill dropped production payments for hogs.

In a test vote, the house expressed disapproval of the Hope-Aiken law, and then turned down the Pace bill in favor of the Gore bill.

The Gore bill merely postpones the job of writing a farm law. It extends Steagall supports at 90 per cent of parity for another year.

The Farm Bureau is given credit for helping to line up enough Republican and southern Democratic votes to put over the Gore bill. But why did the Bureau do it? The Gore bill asks for 90 per cent of parity. The bureau has advocated flexible supports.

By practical politicians, the bureau is credited with some sharp maneuvering. First job Allan Kline and his folks had to do was to repair the breaches in their own ranks. Southern bureau men did not like flexible supports.

So the bureau came out for 90 per cent fixed supports for cotton and tobacco. That got the southern Farm Bureau men back in line.

Next job was to beat the Pace version of the Brannan plan. The Hope-Aiken law favored by the bureau had no chance of approval in the house. But the Gore bill, extending Steagall 90 per cent supports for one year, did have a chance.

The bureau therefore backed the Gore bill in order to beat the Pace-Brannan bill.

Then, in the senate, the bureau helped to beat production payments on hogs, and is working for senate modification of the Hope-Aiken law. In conference, the senate's preference for the Hope-Aiken bill may outweigh the house's preference for the Gore bill.

And, if the whole thing is deadlocked, that leaves the Hope-Aiken law on the books. And the bureau favors the present law.

There's a new assistant secretary of agriculture. His name is Knox T. Hutchinson. He comes from Tennessee.

Hutchinson will have general supervision of marketing policies and programs. Chief job will be to coordinate work of the Bureau of Agricultural Economics, extension service and PMA.

Hutchinson runs a 550-acre farm which produces livestock, cotton, corn, tobacco and milk.

Hog support prices for this fall have not yet been announced, on a week-by-week basis. But there is some prospect that the low point may be around $14.50 in December.

That means a drop of $4 from $18.50 in September.

Whether farmers will actually get this much is doubtful. With production payments beaten, hog men have poorer prospects for fall.

The big corn prospects have officials worried about the storage situation again. If the crop turns out as now indicated, many farmers with 1948 corn under loan will not reseal, because they'll need all their space for the new crop.

That would mean the government would have to take over a lot more 1948 price-support corn than it has been figuring on.

In June, congress passed legislation broadening the Commodity Credit Corporation's authority to provide storage facilities, but with the general understanding that there would be no more competition with private industry than was absolutely necessary.

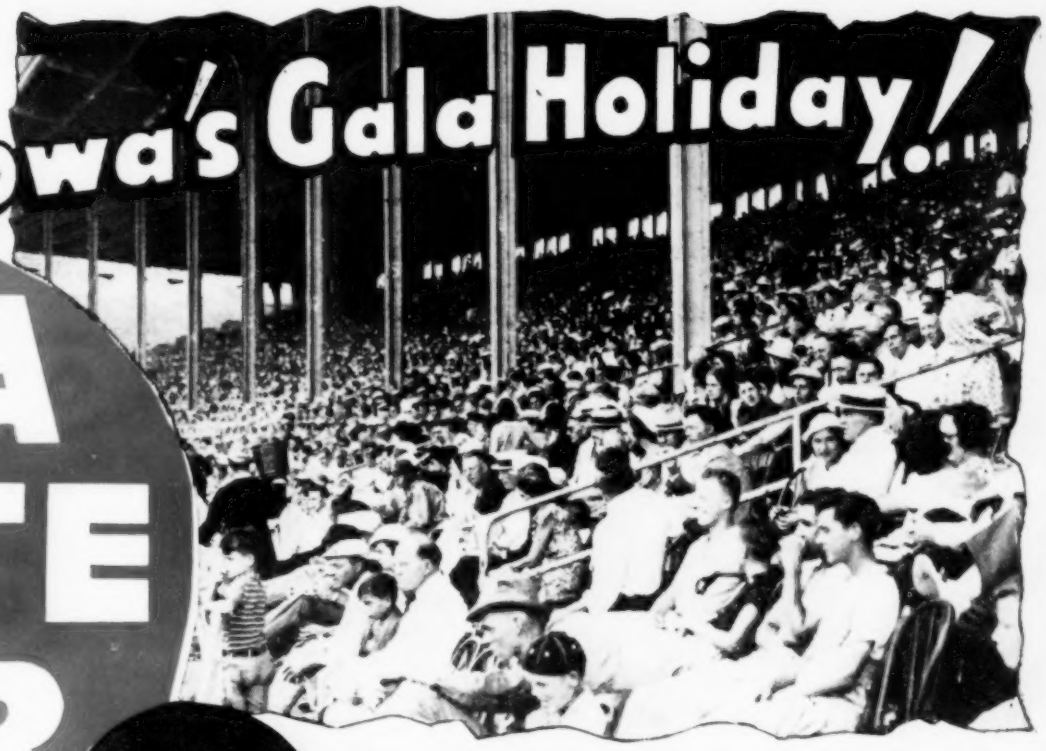
Accordingly, Secretary Brannan announced that the CCC would buy and erect bins in country areas to store 50,000,000 bushels of feed grains. This was in addition to 45,000,000 bushels of bin capacity carried over from before the war.

But grain experts are advising the department that 50,000,000 bushels new storage will not be enough. They urged that orders be placed immediately for 100,000,000 bushels, but the CCC board would not go along. The board said it would prefer to wait a while and see how the corn crop develops.

The grain experts are predicting that farmers may deliver up to 350,000,000 bushels of 1948 corn to the government under loans and purchase agreements. If so, the government certainly would need more space, possibly upwards of 200,000,000 bushels of new storage.

It is a case of the CCC board and Brannan bending over backward to avoid building storage which might result in depriving private storage concerns of business.

Come to Iowa's Gala Holiday!



IOWA STATE FAIR

8 GREAT DAYS AND NIGHTS OF FUN

AUG. 26 *through* SEPT. 2

DES MOINES

SPECTACULAR FUN . . . THRILLING SHOWS . . . DOWNRIGHT ENJOYABLE ENTERTAINMENT

8 WONDERFUL NIGHTS

A Mammoth . . . Singing . . . Dancing . . . Swimming

EXTRAVAGANZA

Under the stars every night, the most spectacular musical extravaganza ever seen at the State Fair. Featuring the internationally renowned "Water Ballet," Broadway Beauty Chorus, Lola Martini, Famous Prima Donna . . . Scores of other hit numbers. Sparkling music and fast moving fun in the biggest musical revue of the year!

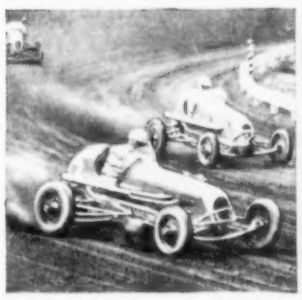
2 Exciting Days of

NATIONAL CHAMPIONSHIP

AUTO RACES

Friday, Aug. 26 - Sunday, Aug. 28

See America's ace Speedway Kings fight it out in breathtaking championship dirt track races for national honors. 8 great races each day! Top-ranking big car pilots of the nation! America's fastest half-mile dirt track!



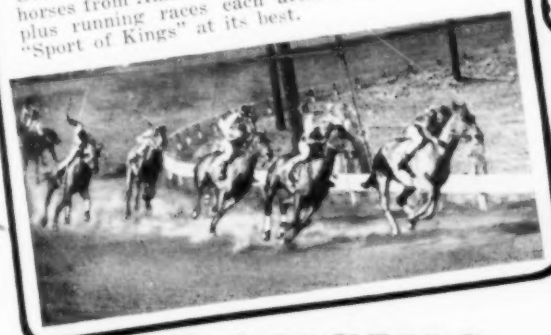
HARNESS & RUNNING

HORSE RACES

August 29 - 30 - 31

Midwest's Greatest Speed Classics

Over $14,000.00 in purses. More than 200 fast horses from America's top stables. Harness races plus running races each afternoon. Enjoy the "Sport of Kings" at its best.



Sensational New

STOCK CAR RACES

Thurs. only—Sept. 1

First time at State Fair. An entire afternoon of sizzling speed with all famous makes of standard passenger cars competing for big purses. Climaxed by 100-mile world championship classic. Thrills galore in this NEW type of racing.

2 Chilling THRILL DAYS

Saturday, Aug. 27 - Friday, Sept. 2

The colossus of all speed spectacles. See Joie Chitwood, famous Hollywood stunt man and 20 other nationally-famous Daredevils in two terrifying, hair-raising afternoons of death-defying crashes and smashes. By far most sensational program of thrillers ever seen at any state fair.

DANCING

Dancing Nightly to Famous Name Bands!

WORLD FAMOUS

3 RING CIRCUS

Twice Daily

Famous circus and hippodrome acts from two continents every afternoon and evening, augmenting the big grandstand show. Trained animals, trapeze performers, jugglers, clowns, thrills and spills. Fun as you like it!

200 ACRES OF THINGS TO DO AND SEE

Super Midway • Hitler's Car • Fireworks nightly • Homes Exposition • Free Camp • Women's Exposition • Elsie the Cow and her famous son • America's Greatest Farm and Livestock Show • Statewide 4-H Club—F.F.A. Show • Swine Show • Beef and Dairy Cattle Show • Poultry Show • Airplane Show • Farm Gadget Show • Nat'l Shetland Pony Show • 40 Acres of Farm Machinery • Fish and Game Show • Iowa Corn Show • "What's New in Farming" • Hall of Science • Harness & Saddle Horse Shows • Art Salon.

THIS IS THE YEAR TO SEE THE STATE FAIR

IOWA CORN YIELDS PROVE
It pays to Plant DeKalb

● 5,282 American farmers averaged 110.14 bu. of corn per acre* in the 1948 National DeKalb Corn Growing Contest.

● 798 Iowa farmers who entered the 1948 Nat'l DeKalb Corn Growing Contest averaged 124 bu. of corn per acre.*

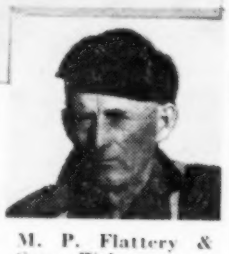
*All yields made on selected 5-acre contest plots.

John Byson, Algona, won 1933 DeKalb, Iowa, and Nat'l Honors with a yield of 173.26 bu. per acre.*

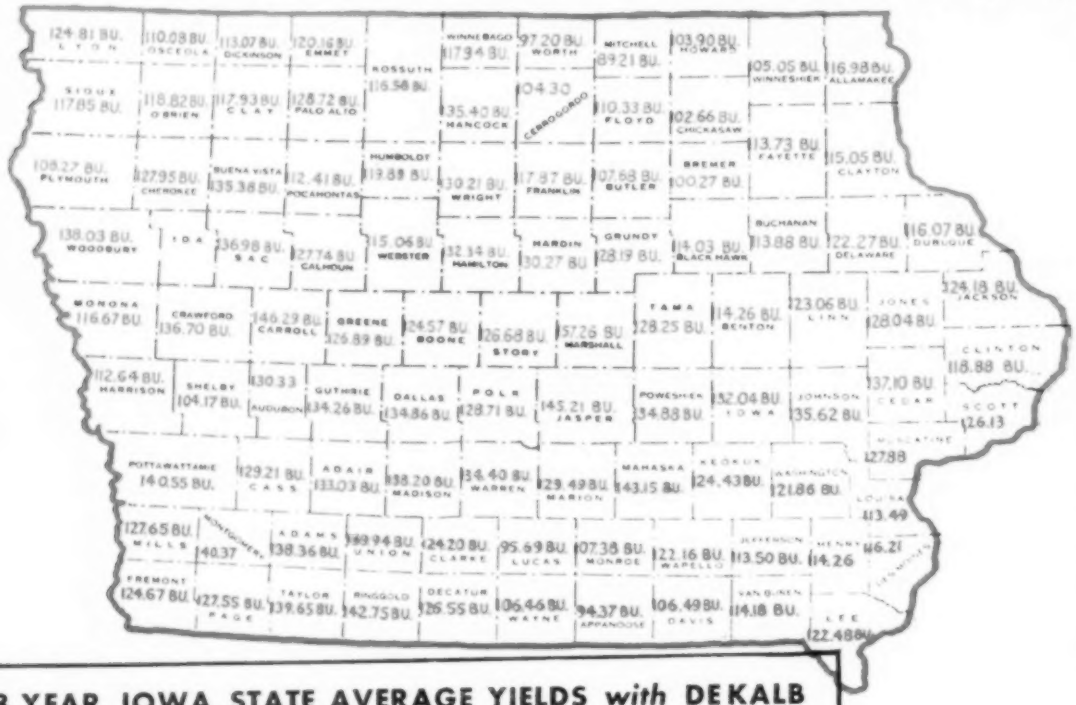
Clarence Mitchell, Packwood, 1939 Iowa Champion, won his title with a yield of 160.41 bu. per acre.*

Luther Cox, Kellerton, 1940 Ia. Champ, 1942 Nat'l Champ had yields of 156.6 & 188.64 bu. per acre.*

Joe Tokheim, Eagle Grove Co., took the Iowa Crown in 1941 with a yield of 160.88 bushels per acre.*



M. P. Flattery & Sons, Webster, won the Iowa Crown in 1943 with a yield of 189.34 bu. per acre.*



8 YEAR IOWA STATE AVERAGE YIELDS *with* DEKALB

1941—104.04 bu. per acre*	1945— 85.37 bu. per acre*
1942—121.23 bu. per acre*	1946—112.29 bu. per acre*
1943—114.36 bu. per acre*	1947— 78.34 bu. per acre*
1944—118.30 bu. per acre*	1948—124.00 bu. per acre*

Figures shown on map are county yield averages made in the 1948 DeKalb National Corn Growing Contest.

John A. Todd, Louisa Co., became the Iowa Corn Champ in 1944 with a yield of 165.34 bu. per acre.*

Frank Craig & Son, Montgomery Co., Iowa, won Honors in 1945 with a yield of 132.73 bu. per acre.*

Joe Van Sickle, Story Co., National and State Champ in 1946 had a yield of 184.03 bushels per acre.*

Wilbert Wagoner, Clarinda Co., won the Iowa Crown in 1947 with a yield of 120.73 bu. per acre.*

Robert Meyer, Lytton Co., was Iowa's 1948 Corn Champ with a yield of 177.21 bushels per acre.*

DEKALB AGRICULTURAL ASS'N, INC., DeKalb, Illinois
Commercial Distributors of DeKalb Hybrid Seed Corn

More Farmers Plant DEKALB *than any other Hybrid*

Voice of the Farm

Doesn't Like To Be Bossed

To the Editor: I started plowing this spring on April 27. The landlord came out and said that I should quit plowing at once. It was too early, he said, and if I didn't quit, it would be my last year to plow there. Everyone says he has no right to come out here and boss us like that.—Mr. and Mrs. George Maack, Crawford County, Iowa.

It is the tenant's duty to operate the farm. The landlord could not make you stop plowing. But he could see that this is your last year there.—Editor.

Forced To Close Small School

To the Editor: Will you permit a "furriner" to enter your discussion on centralized schools?

In your comments on Edward Capesius' article (June 18), you state: "No school can be closed unless its own patrons say so." This may be so in Iowa, but we do it differently here in the Sucker State.

In our own district, we voted "No" by 90 per cent twice, yet we were outvoted in the township by the town vote and those who fell for the idea that it was going to be much cheaper.

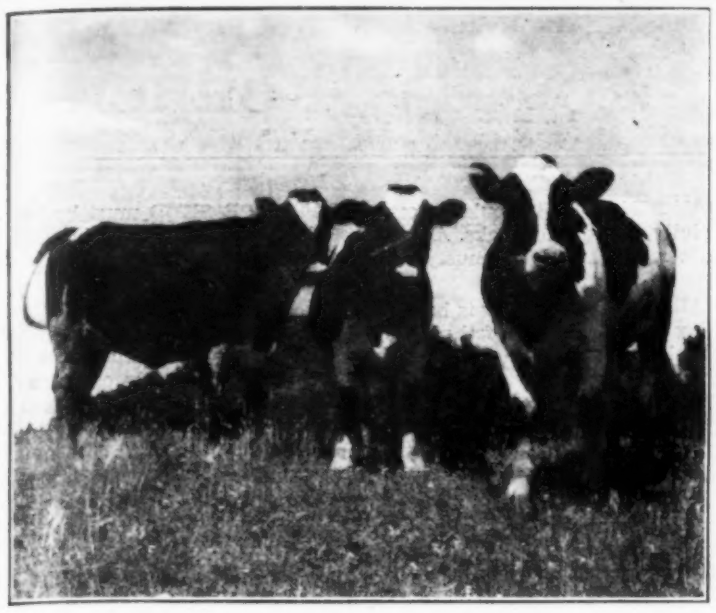
We presented a petition signed by 90 per cent of the voters in the district, asking permission to keep our school. This was ignored. We called on the board, explaining that our roads were bad in winter and that bus travel would be unreliable. We were told to go play with our marbles, and that they would get the bus to our lane or mailbox, come hell or high water.

Did they? My seven-year-old boy left home from 6:30 to 7 a. m. many times, walked half a mile thru rain and snow to wait for the bus, then got home at from 5 to 5:30 many nights. And we live on a "state aid" road.

I wonder how much longer people are going to stand for this so called centralization being stuffed down their throats. — Bill Kirkwood, Moultrie County, Illinois.

Bigger schools may mean better education. But we'll agree reorganization will never work unless farm people become sold on it themselves, not forced into it.—Editor.

"Why not milk one that's standing in the shade? I like my milk cool."



Purebred Holstein heifers on a Palo Alto county, Iowa, farm switch their tails just for practice. New chemicals help keep the animals fly-free. And research brings even better new chemicals.

Flies Leave Stock Alone Now

Again This Summer New Chemicals Are Helping Produce More Milk And Meat

"ALL the machinery and equipment, all the chemicals and drugs, all the electricity and tools I use today make me wonder how in the world I ever was able to farm 20 years ago." So said one Palo Alto county, Iowa, dairyman, recently.

Flies, for example, no longer are cutting milk production 15 to 20 per cent on Iowa farms during the summer months. That's important to dairy farmers.

No longer can flies steal from one-fourth to one-half a pound of beef every day, either.

Not on farms where sanitation and one of the new chemicals, like DDT, methoxychlor or lindane, is used.

Lindane is the newest chemical recommended by the United States Department of Agriculture for fly control.

A 25 per cent wettable powder (such as Isotox dairy spray, Dow lindane), with 10 pounds in 100 gallons of water, is used as a residual spray.

Actually, lindane is the approved name for the "pure gamma isomer" of the familiar BHC. The gamma isomer does the bug-killing, but lacks the objectionable odor of some of the other BHC isomers.

Lindane has a three-way killing action—by contact, vapor fumes and as a stomach poison. For fly control, it combines rapid knockdown with residual control for about four weeks.

The length of time which the spray remains effective depends upon the weather, exposure to sun and rain.

Lindane is effective, too, on flies that are resisting DDT or methoxychlor. It should not be used on dairy animals themselves, but can be used in dairy barns.

Lindane does not accumulate in the animal's system. Tests show that any taken in by the animal is soon passed off.

Lindane, or BHC, has been popular with hog men for the control of mange. It is effective on lice, mosquitoes, bedbugs, silver-fish and many of the crop pests.

This is a good time to get rid of flies. You have several potent chemicals. Try lindane if you wish. Or continue with DDT or methoxychlor. And haul out that manure you didn't have time to move last spring.

If you leave too many breeding places, flies will hatch out as fast as the chemical can kill them. You won't get rid of the pests that way.

The same results have been secured from other chemicals for other livestock pests.

New, potent drugs, such as sodium fluoride and phenyl mercuric phthalate, knock the worms out of hogs and chickens—and leave the pigs or pullets in condition to grow rapidly. Sheep benefit from phenothiazine.

The chemicals can't do the business unless they are used, and used right. Even then, they don't exactly work miracles by themselves. You have to help with all-around good farming.

The Iowa State Fair is a good place to brush up on the control of livestock pests and parasites. The manufacturers and distributors of chemicals and chemical equipment for pest and parasite control have spoken for a lot of exhibit space.

One of the items they will have at the fair is a very precious commodity. That is their service—their help in solving your livestock disease and pest problems.

Their research men study pests and parasites. They know which chemical will get the best results for the least money.

USE The New MOZ-ALL FOR

Big, Tough, MOWING Jobs!

Say "GOODBYE" to Heaviest Weed Patches

Get rid of ugly weed patches in seconds. Without blisters. Moz-All's hi-carbon steel blade whisks through weeds 2 inches thick! Return trip over cut weeds pulverizes them into fine mulch. Ideal for cutting under fence rows, around barnyard, in the orchard. Eliminate hand scything!

- Timken Bearing Equipped
- Hi-Carbon Steel Blade — Adjustable Cutting Heighth
- Efficient, Long Lasting Lubrication. Precision Built
- Cuts Tallest, Toughest Weeds, Long, Tangled Grass Evenly and Smoothly
- Mulsifies Grass Cuttings — Enriches Soil — Good for Your Lawn

See Amazing MOZ-ALL Demonstration at the STATE FAIR . . .

You might miss us at the fair, so write today to be sure to have full information. No obligation. Send name and address to:

WIND-KING MERRILL, IOWA

MOZ-ALL Makes Lawn-Mowing a Pleasure

Keeps your lawn in trim with little effort. Moz-All trims your lawn to golf green beauty. Special wheel eliminates ground scalping. Moz-All cuts right up to fences, buildings, bushes, and trees. No need to retrim with scissors, clippers, or hand scythes. See your dealer or write to:

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Dept. WF8 MERRILL, IOWA

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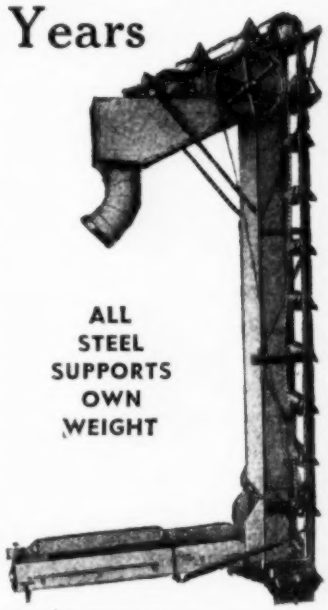
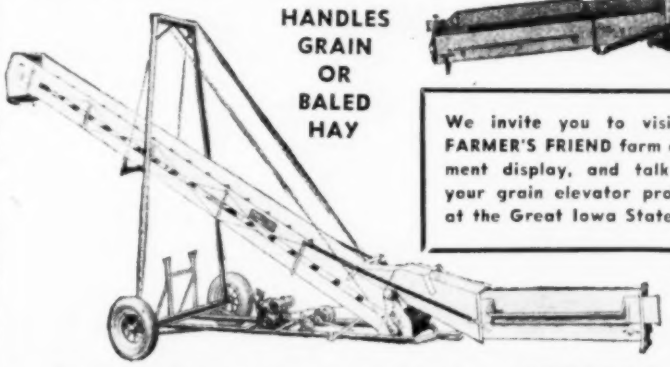
First Choice of Iowa Farmers For Over Forty Years

Farmer's Friend Farm Elevators are geared to present day hybrid crops and improved power farming. Portable elevators that are faster — have more capacity — easier to move and store. Handle grain and baled hay. Completely galvanized and rust proof.

Cup elevators in rugged ALL-STEEL CONSTRUCTION that supports own weight and cannot sag. A complete line of cup elevators built to fit any crib or handle any elevating job. Custom made and factory installed to fit your needs. Write for literature.



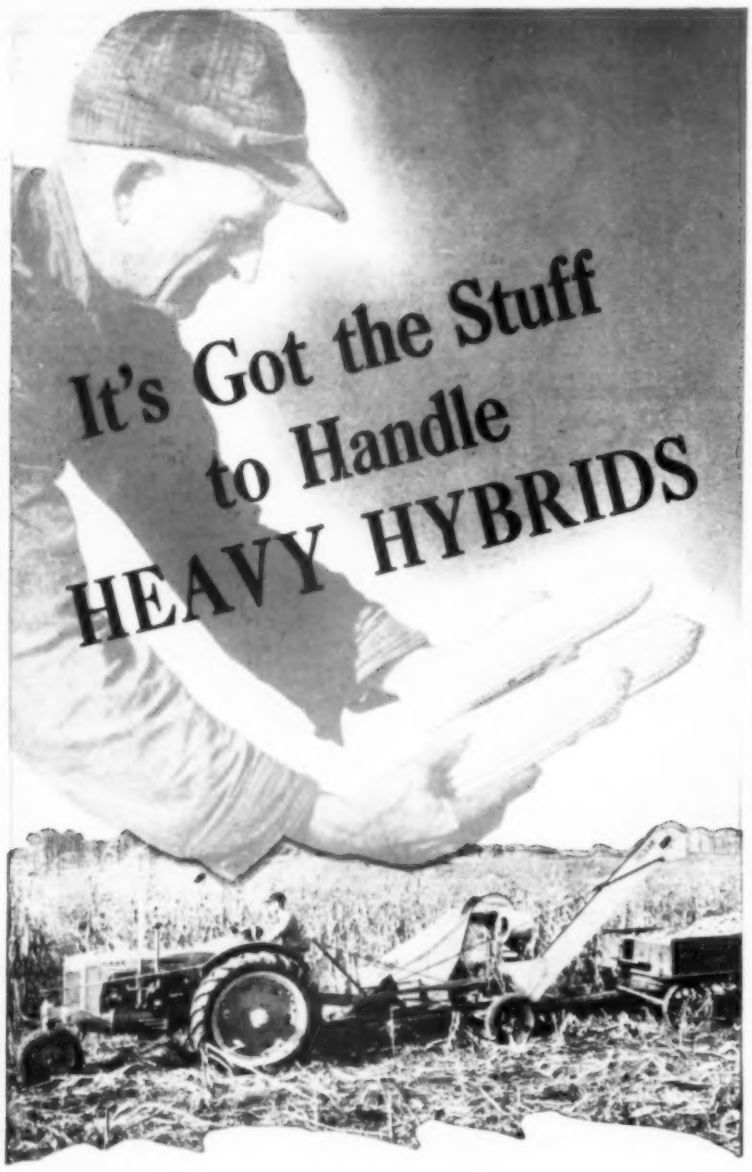
ALL STEEL SUPPORTS OWN WEIGHT



HANDLES GRAIN OR BALED HAY

We invite you to visit the FARMER'S FRIEND farm equipment display, and talk over your grain elevator problems at the Great Iowa State Fair.

G. & D. MFG. CO. Dept. E-37 STREATOR, ILL.



Heavy-Duty Capacity in a Low-Priced Picker

● **To give you still more capacity in the highest-yielding varieties of hybrid corn, this year's Case corn pickers have what it takes to handle the bigger, longer ears as well as the heavier yields.**

The Case one-row Model "P" picker, shown above, now has a bigger, wider wagon elevator to accommodate bigger ears and more bushels. It . . . and also the two-row Model "I" . . . have new gathering chains with improved spuds. The flare-sheets which form the hopper above the picking rolls are re-designed for faster, smoother work in hybrid fields.

Both one-row and two-row models have the stuff to go right along in corn yielding 70 to 100 bushels an acre. Both have the famous Case air-blast cleaning fan that blows away "mouse-nest" and coarse material, helps corn to cure faster and keep better in the crib. Both have the Case double-action rolls that husk as they pick, hold down shelling losses.

Plenty of Power for Picking. The full two-plow Case "SC" tractor shown above has extra power for fast work in heavy corn and heavy going. The low-cost, light two-plow Model "VAC" has extra engine size, for full power without high engine speed. It does a great job with the light-running "P" picker. See your dealer; send for picker folder and "VAC," "SC," or 3-plow "DC" tractor catalog. J. I. Case Co., Dept. H-80 Racine, Wis.

Workday Pointers

OAT BIN ROOFS should be carefully checked for leaks. A small hole can mean a lot of musty oats.

▲ ▲ ▲

EARLY FALL plowing is best for weed control. Late fall plowing provides more green manure for the soil.

▲ ▲ ▲

COCKLEBUR cutting time will have to be about two weeks earlier than usual this year. When corn matures early, cockleburs do, too.

▲ ▲ ▲

TRACTOR MOTORS are made to operate at a constant speed. Change gears when you want slower ground speed, and let the automatic regulator control the throttle.

▲ ▲ ▲

CATTLE GAINS per acre on pasture can be as high as 300 to 400 pounds, say Illinois cattle men. That's on pastures that have been improved by modern methods.

▲ ▲ ▲

SQUARE UP the sides of your straw stacks now if you expect to haul straw from them next winter. A good way is to bale the straw around the edges before it gets wet.

▲ ▲ ▲

A NEW LAW in Iowa requires drivers of cars, tractors and trucks to stop before entering any highway from a private road or lane. Penalties for failure to stop are the same as for driving thru a stop sign.

▲ ▲ ▲

BEFORE PLOWING your old meadows and pastures for corn next year, examine the new seedings. Check over your crop plans for next year, too. You might decide not to plow the old grass stand at least until spring.

▲ ▲ ▲

GRASSHOPPER poisons recommended are chlordane and toxaphene. One pound of actual chlordane should be applied as a spray and one and one-half pounds as a dust. For toxaphene, apply one and one-half pounds as a spray and two pounds per acre as a dust.

OATS FOR SEED must be bone-dry when put in the bin. The slightest heating will hurt germination next spring.

▲ ▲ ▲

YOU SAVE BUILDING a roof if grain bins are built inside the barn. Space formerly occupied by horse stalls can be used for grain bins.

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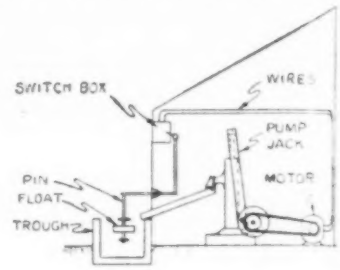
TANK FLOATS can be rigged up so they will turn on electric motors to fill the tank and shut off the motor when the tank is



full. The illustration shows one method. Notice that the float slides up and down on a rod. Pins in the rod control the point at which the switch is thrown. Safety requires that the parts which throw the switch must be of wood or other non-conductors of electricity.

▲ ▲ ▲

RUSTY SPOTS on the galvanized roof mean that a coat of paint is needed. Much less paint and labor are required if painting is done before the rusty spots begin to spread.

▲ ▲ ▲

MEDICAL TREATMENT never can be a substitute for clean conditions in livestock yards. Prevention is better than cure, whether it be parasites in hogs or Bang's disease in cattle.

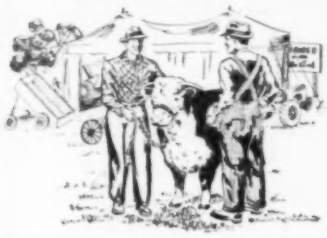
▲ ▲ ▲

WHEN SEALED CORN gets down to 13.5 per cent moisture, you can shell the corn and reseal it in bins. Corn under purchase agreement can also be sealed. Then the empty cribs can be made ready for the new corn crop.

MUD-ROAD MAC

"I really wasn't intending to come, but I got caught in the traffic flow when I was out on my route."

A STATE FAIR visit is a business trip for the farmer. On the fair grounds, you can see the best livestock. You can see all the new



machines and new farm and home equipment. You can also see farmers from many counties. Altogether, you may be able to get many ideas that you can use on your own farm.

▲ ▲ ▲

EARLY MARKETING of spring pigs usually gets the biggest price for the hog raiser.

▲ ▲ ▲

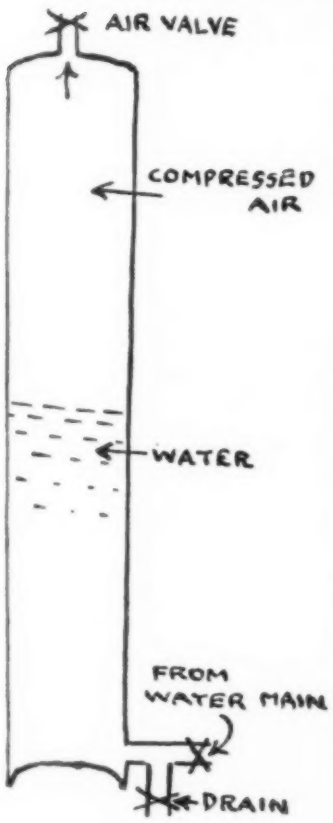
A COMBINATION of bolts and nails makes a strong wood joint. A bolt or two will keep the wood members tight together, giving the nails their greatest holding power.

▲ ▲ ▲

GRASS SILAGE should have between 60 and 68 per cent moisture if no preservative is to be used, says an Iowa State College bulletin. If the grass is not wilted to this moisture content, then a preservative should be added—which can be ground corn, ground oats, molasses, dried whey or acids.

▲ ▲ ▲

WATER PRESSURE can readily be turned into compressed air by the method shown in the illustration. You must have an old tank with a water inlet at the bottom and an air outlet at the top. Close the top valve and turn the water pressure in at the bottom. A pump can be used to furnish the water pressure, but there should be a safety valve to prevent putting too much pressure



in the tank. The air will soon have the same pressure as the water pipe supplies. Then you can use the air pressure for pumping up tires, or for any other purpose. When the air is all used up, the tank will be full of water. Empty the tank completely and turn on the water pressure again.

Here is the year's BIGGEST news in FLY CONTROL...

LINDANE JUST APPROVED BY FEDERAL AUTHORITIES.

...and ISOTOX Dairy Spray containing LINDANE is available to you right now!

ORTHO and ISOTOX. TM's Reg. U.S. Pat. Off.

Here are the facts on ISOTOX Dairy Spray containing APPROVED LINDANE, the potent new insecticide with a 3-way residual killing power!

ISOTOX DAIRY SPRAY KILLS FLIES. New ISOTOX Dairy Spray, containing approved lindane, is the fastest fly control. It kills flies resistant to DDT and Methoxychlor. It kills flies *immediately* — they don't spin around half dead for hours. It kills flies by direct contact and by residual action for about 4 weeks, depending on the weather.

ACTUAL USAGE SUCCESSFUL. Dairymen for the past year—and experiment stations in New York, New Jersey, Texas, California, in addition to other areas — have been using ISOTOX. They report outstanding success in killing flies. Dairy pest control operator A. S. Lasley, Bellflower, Calif., says:

"ISOTOX Dairy Spray will clean up a dairy quicker than anything I've ever used. DDT at its best used to take 6 to 12 hours to kill a fly. ISOTOX Dairy Spray drops them right on the floor! And I have found that a regular program of spraying with ISOTOX Dairy Spray will put the dairyman money ahead, because he gets a good cleanup of flies and his cows are disease free."

ISOTOX DAIRY SPRAY containing lindane is a wettable powder. It is used at the rate of 10 pounds to 100 gallons of water. It is packed conveniently in 1-pound and 4-pound cans and 20-pound pails.

OTHER USAGES. ISOTOX Dairy Spray, containing lindane, is an excellent residual spray in buildings where dairy products are handled. Also ISOTOX Dairy Spray not only controls flies in and around dairy barns, farm buildings, manure piles and other fly-breeding places, but it may be used to control: certain pests on livestock, such as ticks and lice on beef cattle; sheep ticks on sheep; lice on beef cattle, hogs, horses and sheep; scab or sarcoptic mange on dairy cattle, beef cattle, sheep and hogs. It also controls roaches, ants, mosquitoes and certain other insects.

ISOTOX Dairy Spray mixes readily with water for spraying. It can also be used as a paint around windows, doors, walls and ceiling beams — wherever flies gather. Directions for uses are printed on the label.

Phone your dealer or contact our offices listed below for immediate shipment. ISOTOX Dairy Spray will save you money through better pest control resulting in higher milk production.

CALIFORNIA SPRAY-CHEMICAL CORP.

Kansas City, Missouri, 705 Walnut Street. Phone: Grand 5126

R. C. Yapp, Iowa Representative, 117 Marshall Street, Boone, Iowa

PEST FLASH!

GET SET FOR SECOND BROODS!! KILL CORN BORERS WITH

PEST-B-GON SPRAY (50% DDT) OR PERSISTO DUST #50 (5% DDT).

CONTROL GRASSHOPPERS WITH ALLTOX LIQUID SPRAY (4 LBS. TOXAPHENE PER GAL.)

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FOR DUST APPLICATION USE ALLTOX DUSTS OR ORTHO-KLOR DUSTS

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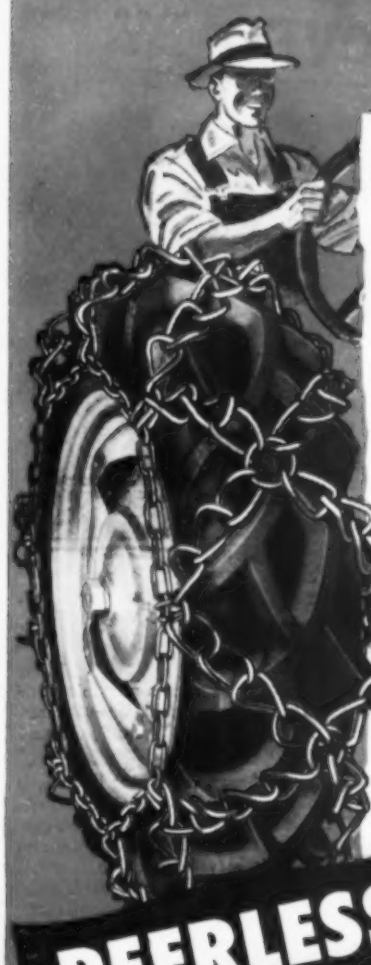
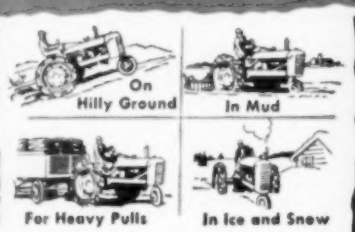
PEST-B-GON, PERSISTO, ORTHO-KLOR, ALLTOX. TM's Reg. U. S. Pat. Off.

KEEP YOUR TRACTOR MOVING
WITH PEERLESS
KRISS×KROSS
TRACTOR CHAINS





MORE CHAIN ON THE GROUND FOR MORE TRACTION!

Don't let your tractor bog down when the going gets tough! Use PEERLESS KRISS-KROSS tractor chains!

In wet or slippery ground, on troublesome inclines, and with heavy loads, KRISS-KROSS chains keep your tractor *moving!* The unique construction of the KRISS-KROSS self-cleaning links provides a continuous chain mat that covers the greatest amount of tire surface. This means more traction, more riding comfort, and more protection for your tractor tires.

PEERLESSS KRISS-KROSS tractor chains are case-hardened from tough alloy steel and will take an exceptional amount of wear. They'll give perfect service for years.

See your nearest PEERLESS Dealer today!

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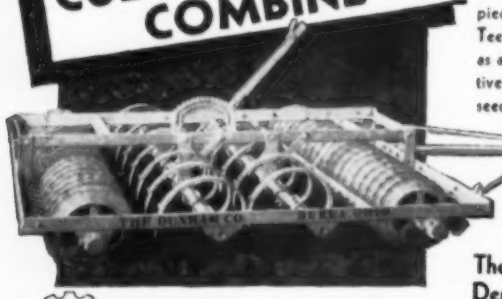
Manufacturers of chains for passenger cars, trucks and tractors—chains for every need.

CULTIVATE on a COMBINE BASIS
with the DUNHAM CULTI-MULCHER COMBINE

Look for the DUNHAM Exhibit at your State and County Fairs.

This TILLAGE COMBINE rolls, levels, harrows, stirs, pulverizes, cultivates, mulches, and gently packs in ONE OPERATION! Completely works, reworks, and triple works soil 6 to 7 inches deep. Equipped with the famous Dunham wedge-edge, one-piece wheels, and double spring teeth. Teeth may be raised and unit used as a straight Culti-Packer. Most effective tool obtainable for preparing all seed beds.



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Do your buying from firms advertising in WALLACES' FARMER and IOWA HOMESTEAD. If you do not find in WALLACES' FARMER and IOWA HOMESTEAD the articles you want to buy now, just let us know what you want and we will be glad to give you names of reliable firms from whom you can make the purchase.

Prairie Grass hay—the original stuff—is put up on Louis Culver farm in Harrison county, Iowa. This piece never has been plowed, makes about two tons of hay per acre. "Wonderful for horses," says Louis. "They can't overeat." Some of the prairie hay is sold to saddle horse owners. The rest makes winter feed for cattle.

Time Yet For Fall Grass Seedings

When Sown During August, Alfalfa Will Replace Clover Stands Lost In Oat Fields

IF DRY weather or grasshoppers got the legume seeding in your oats, there is still time to reseed. But fall seedings require the use of certain legumes and special seed-bed preparation.

Alfalfa is the best legume to seed in the fall. The clovers have not given good results when sowed at this time of year.

Brome or timothy can be sowed in the fall. These grasses, by themselves, however, will not make much hay or pasture in 1950. If sowed with alfalfa, they will produce some feed in 1950, and be ready for 1951.

Farmers have found three things to be important in the fall seeding of alfalfa: (1) The land must be fairly fertile and must not lack lime; (2) seed should be sowed in August; (3) the seed-bed must be firm and finely pulverized.

If your land has not grown alfalfa or sweet clover, and is known to be sour, you would waste time and money to seed alfalfa. Fall rye, sudan grass and spring seedings must furnish 1950 pastures and meadows on that kind of land.

If you decide to apply lime so you can grow alfalfa, the lime should be applied as far ahead of seeding time as possible. A soil test will indicate the amount required.

Phosphate can be added to improve soil fertility. Alfalfa gives good results from application of this plant food. Three hundred pounds of 0-20-0 is advised. Manure improves stands and yields.

If plowing for fall-seeded alfalfa hasn't been done, it should be started at once. Each half-day's plowing should be worked with harrow or disk before you leave the field.

Then the land should be worked after every shower. As soon as the plowed ground is well settled and free from clods, the alfalfa should be sowed. September seedings are considered to be late.

Some have tried disking stubble land for alfalfa seeding in the fall. This method has produced stands on some soils. Farmers in most areas plow after trying the disk once, however.

Should brome or timothy be sowed with alfalfa? Many farmers say, "Yes"—if you are going to leave the alfalfa more than one year. For one year in grass, the answer usually would be "No."

If a sod grass is to be sowed, southern or adapted strains of brome will make more feed than timothy. Timothy may be cheaper to seed, however.

Twelve pounds of alfalfa seed per acre is enough for alfalfa alone, in a fine seed-bed. The seed should be lightly covered. About one-half to three-fourths inch is the right depth.

If brome or timothy is sowed with the alfalfa, some reduce the alfalfa to ten pounds and add five to ten pounds of brome or four to six pounds of timothy.

Grasshoppers may be a special hazard to new alfalfa seedings this year. Sometimes the 'hoppers eat the sprouts off around the edges as fast as they come up.

You should be prepared to fight the 'hoppers with chemicals. Toxaphene at one and one-half pounds per acre or chlordane at one pound per acre are recommended.

If the 'hoppers are on foliage that they are eating, the toxaphene or chlordane should be mixed with water and sprayed on the foliage.

But if the 'hoppers are keeping the ground bare, and the chemicals can't be sprayed on what the 'hoppers are eating, then the poison must be mixed with a bait, such as sawdust or bran.

Farm and Feed-Lot

New Grass-Killer Not For Lawns

To the Editor: Do you know where I can buy TCA to kill the crab-grass in my lawn?—B. A., Webster County, Iowa.

Yes, but we don't think you want to.

TCA kills all sorts of grass, and will kill lawn grasses as well as quack, Bermuda, Johnson and crab grass. The product is recommended for use on grass-infested crop lands in the fall after the crop is harvested.

Then the field will be relatively free of grass in the spring. It makes the soil sterile for a while, but, when used in the fall, most of the material will leach out of the soil before spring planting.

Too Much Milk Makes Calves Scour

To the Editor: I used to have lots of trouble with white scours in calves. A man gave me this advice: "Don't let the calves have any of the first milk. Don't feed too much milk." Since then, I haven't had any trouble with scours. —W. Y., Allamakee County, Iowa.

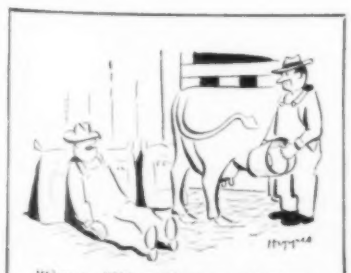
It is true that most people are apt to feed too much milk to their young calves. There your adviser is right. But we wouldn't agree that you should not feed any of the first milk (colostrum).

Colostrum protects the new-born calf against diseases, especially of the digestive system. Its high Vitamin A content is vital to the calf, since he is born with only a small supply. Some dairymen prize colostrum so highly that they freeze the excess, and later feed it to the calf mixed with skim-milk.

Overfeeding probably is the most common cause of trouble in raising calves. And you can let the new calf have too much colostrum if you let him suck the cow too long. Morrison's "Feeds and Feeding" recommends:

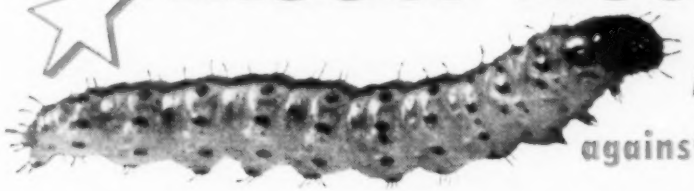
For the first day or so, five or six pounds of milk daily is safe. Eight pounds for a large, husky calf is the maximum. A good rule is to feed one pound of whole milk daily per 10 pounds of live weight.

A gallon of milk weighs 8.4 pounds. So you shouldn't feed more than a half-gallon of milk twice daily, even to a large calf. But don't throw colostrum away. It is nature's special food for the new calf. Just see that he doesn't get too much.



"Sure, I'll milk her. Bring her over."

Insect Resistance!



real protection against dollar-stealing bugs..

That's what this important Star Quality of Funk's G-Hybrids may mean to you next season—if pests are bad on your farm. Corn borers, chinch bugs, ear worms and root worms are always a hazard somewhere. You can't afford to take a chance. Five-Star Funk's G-Hybrids give you the greatest protection against insect damage that is practical and possible for your area. Be sure you have that *bred-in resistance* developed by Research that's Nationwide and 30 Years Deep. Order 5-Star Funk's G-Hybrid seed corn now.

Standability

Drouth Resistance

Fast Starting

Disease Resistance

One of the Newest... G-54

Funk's G-54 is one of the newest and most promising 5-Star hybrids for Iowa; full season for central Iowa, medium farther south. Seed is limited to one bushel per customer.

Has made an excellent record on medium fertility soil. Has ability to **produce heavily** on high fertility.

Makes a large cylindrical ear, carried at medium height on a sturdy stalk with fine standability. Kernels are medium dent — neither smooth nor rough. Order seed now.

FUNK'S G HYBRIDS

Consistently Good!
YEAR AFTER YEAR

FUNK BROS. SEED CO.
Bello Plaine, Iowa
And Associate Producers of Funk's G-Hybrids

THEY'RE BORN TO LIVE

Number of pigs per litter plus the cost of producing gain equals PROFIT! Hogs that are farrowed and lose their life from disease and poor management before they reach the market eliminates PROFIT.

FEED LOT ROBBERS MUST BE ARRESTED TO STOP PROFIT STEALING

The M & M LIVESTOCK PRODUCTS CO. is helping thousands of good hog men with their nutritional and disease problems. WRITE for literature on the M & M NUTRITIONAL SERVICE.

NOCTOL

An aid in the control of BLOODY SCOURS. Administered in drinking water.

SULFATONE

An aid in the control of INFECTIOUS ENTERITIS. Mixed dry or wet for a five day treatment.

TRACITE

High concentrate of trace minerals for mineral mixtures. Aids against anemia.

VITACITE

A vitamin compound for aid in combating nutritional deficiencies and helps "gain."

MIN-A-MIX

A well balanced mineral feed containing essential trace minerals.

Write Today! Get the Facts on M & M Products

M & M LIVESTOCK PRODUCTS CO.

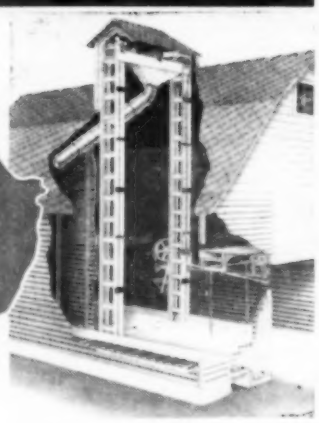
CLARION, IOWA.....EAGLE GROVE, IOWA

ELEVATE, LIFT, LOAD BY POWER

MEYER equipment will *multiply* your efficiency in hauling and binning grains (including ear corn); handling bales, loading; digging; lifting; 'dozing.

MEYER

FARM-TESTED EQUIPMENT



The sturdiest, strongest elevators built! Meyer Cup Elevator handles 50 bushels in 3 minutes! No short turns. Many models again available.

MEYER PORTABLE

Extra-heavy, extra strong. Widest and biggest capacity. Bridge-truss cross-bracing. Handles baled hay, ear corn, small grain, soy beans, etc. All galvanized steel.

POWER LOADER

Heavy duty, all-purpose. Two rugged MEYER LOADERS — both easily attached. Powerful, dependable, fast. Advanced engineering features. 6 ft. Dozer blade interchangeable with scoop. One ton capacity; digs, lifts, moves.

Hydraulic or Mechanical

BALE LOADER

Picks up 75 bales in 15 minutes. Picks them up just as dropped. Light draft. Ground-driven. Easily hitched to front truck bumper or to tractor alongside wagon.

Two Models — Bale Deck Heights 6 9' and 10 9'

FREE *Write for free crib plans and catalog showing all Meyer Elevators, Bale Loader, and Power Loader.*

THE MEYER MFG. CO. • 1765 W. ADAMS STREET • MORTON, ILL.

New Rat-Killing Chemical

A new rat-killing chemical, now known at Compound 42, has given outstanding results in field tests by the U. S. Fish and Wildlife Service.

The compound is something like dicoumarol, the substance found in spoiled sweet clover, that prevents clotting of the blood. It takes four or five feedings of Compound 42 to kill a rat—but the effect is cumulative; rats do not learn to avoid it, nor do they develop tolerance to it.

Unlike the very dangerous Poison 1080, Compound 42 is not harmful to larger animals nor to humans in the dosages recommended for rats. And antidotes are are available for the compound.

Best mixture for rats seems to be about 5½ ounces in 100 pounds of solid food.

Synthetic Milk For Orphan Animals

Calves, baby pigs and lambs have been raised to weaning age on a diet of synthetic milk at the University of Illinois.

The milk solution, homogenized and pasteurized, includes casein or soy protein (29 per cent), lard (30 per cent), glucose or cerelose (31 per cent) and a complete mineral mixture (6 per cent), plus all the known vitamins.

Test New Bang's Vaccine

"Brucella M," which is a mucoid-growth type vaccine for brucellosis, has given good control of brucellosis in herds in Michigan, where large-scale testing has been done.

According to Dr. I. Forest Muddleson, Michigan State College research veterinarian, the vaccine has checked the spread of the disease in 99 per cent of herds where all non-infected animals have been vaccinated.

In one check, 772 clean cows were vaccinated in 22 private herds. These herds contained more than 100 infected animals. During the next 12 to 14 months, only 23 of the vaccinated cows took the disease.

In another check, smaller numbers of clean cows were vaccinated and other clean cows in the same herds were left unvaccinated. A year later, only one vaccinated animal had taken brucellosis, but many of the unprotected cows had the disease.

More Milk With Thyroprotein

Feeds containing thyroprotein are now being used to stimulate milk production by a few highly specialized Indiana dairies.

Commercial feeds containing thyroprotein, fed at the rate of three pounds per day in addition to the regular ration, make the cost 18 to 21 cents per day.

The compound speeds up the cow's pulse rate and respiration rate. There is some loss in body weight of the cow.

Records on 100 cows show, on the average, that two cows will not respond to the hormone at all; two more will give 15 or more pounds of milk above what they gave before; about 20 cows will show a 5 or 6-pound milk increase. The other 76 cows will produce 1 to 15 pounds more of milk per day.

It doesn't take much thyroprotein to produce a response in dairy cows. Both F. N. Andrews, Purdue animal husbandryman, and E. A. Gannon, extension dairyman, agree on that.

Indiana dairymen must buy the chemical under a temporary permit issued by the state chemist.

Drug Gets Poultry Tapeworm

Phenyl mercuric phthalate has proved to be effective in removal of poultry tapeworms in extensive trials with numerous drugs at the Dr. Hess Research Farm.

Against the hair tapeworm and the broad-headed tapeworm this drug has been remarkably effective. Against the dwarf tapeworm it is slightly less effective. It rates high in safety, being relatively non-toxic. Growth of the birds was not retarded.

Latest In Research At State Fair

During the past year, Research Points to Profits has helped you keep up to date on new ideas, new products and new uses for older products. Almost 100 reports, covering the results of hundreds of experiments by colleges and manufacturers have appeared here.

Hundreds of you have written this paper for more complete information on the new products and ideas mentioned here. The Iowa State Fair offers another chance for you to find out about the latest developments in farming.

Fair visitors will have a chance to see scores of educational exhibits and visit with outstanding research men.

"Looks like Daughter is going out to shock the corn."

Cows Need Time To Eat

Dairy cows need more time for eating grain than should be permitted in a milking parlor, a recent study at the University of Illinois indicates.

Of the five dairy breeds, Holsteins and Brown Swiss apparently eat most rapidly, Guernseys and Jerseys more slowly.

The average time per pound of feed consumed for all breeds was 2.6 minutes.

Farmer Finds New Sweet Potato

A new sweet potato, Texas 51, outyields other varieties by 50 to 100 per cent. It's top is an upright bush, instead of a 10-foot vine. It was discovered by E. L. Murff, a Texas farmer.

He noticed the outstanding yield and uniformity of one bush plant in 1936. He kept those potatoes separate, culled all that reverted to the vine type.

Murff turned samples of the potato over to the Texas A. and M. College in 1947. Two years of testing have made sweet potato men highly enthusiastic about the bush type.

Corn Cobs Are Just One By-Product

Corn cobs are the first by-product to be taken off corn. But modern research has made a string of other by-products from the cobs.

Industrial users grind the cobs to make a second by-product, a soft-grit abrasive used for air-blast cleaning and polishing.

The finest particles are screened out of the ground cobs, ground still finer, and used as a flour in phenolic-resin glues.

In another direction, along the furfural road, corn cobs help make hundreds of products, from nylons to drugs and vitamins.

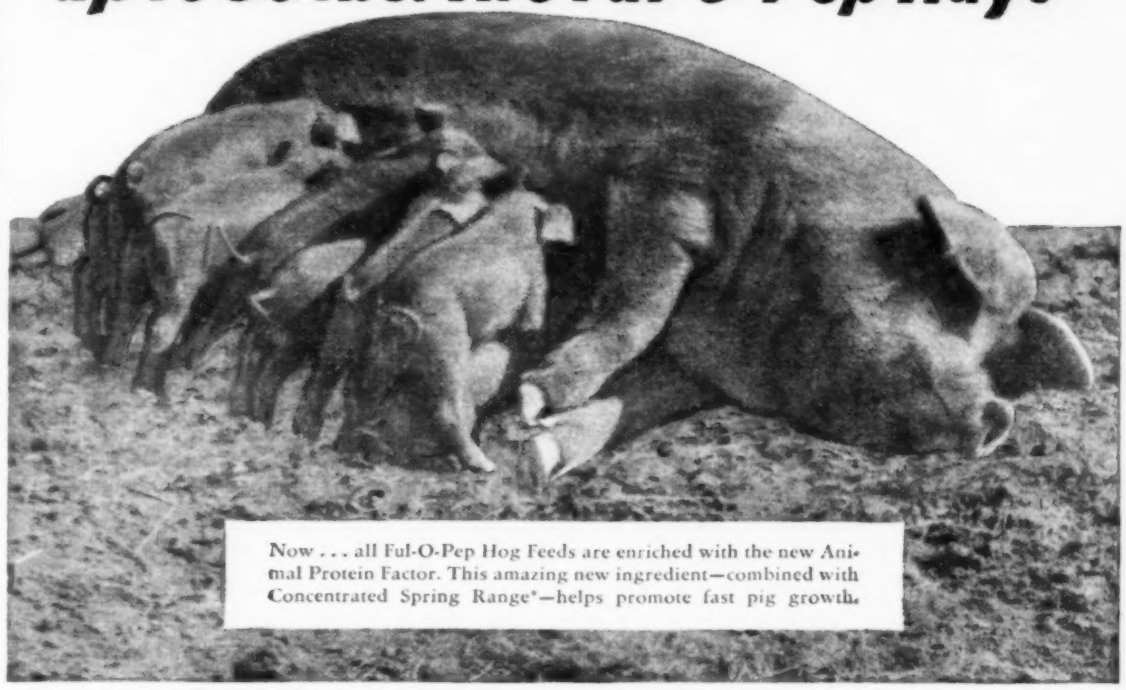
Seek Chemical For Green Aphid

Dakota Farmers have had a battle this summer with armies of plant-sucking green aphids. TEPP — tetraethylpyrophosphate—gives control of these crop-destroying pests.

But TEPP is dangerous to man and other animals. Treatment costs per acre run from $2.50 up to $3.

Research is needed on a chemical that will get the aphids, be safer to use, and safer for beneficial insects.

WEAN PIGS WEIGHING up to 50 lbs.-The Ful-O-Pep Way!



Feed sows Ful-O-Pep Pig-N-Sow Feed & grain ...helps keep their udders full!

Sow's milk is crammed plumb full of nourishment little pigs need.

That's why so many Ful-O-Pep feeders get their baby pigs off to a fast start. For Ful-O-Pep Pig-N-Sow Feed and grain help make lots of sow's milk . . . enough to give each pig a good, healthy portion, *even in big litters.*

And here's why: FUL-O-PEP ALONE is enriched with Concentrated Spring Range—scientifically processed from young, tender forage plants. By furnishing many of the healthful benefits of *spring pasture itself,* this Vitamin Boost helps keep sows' udders full of *vitamin-packed milk.*

What's more, Pig-N-Sow Feed contains the new Animal Protein Factor—plus quality proteins and organic-source minerals needed to turn your grain into a balanced sow's feed.

So feed your sows Ful-O-Pep Pig-N-Sow Feed and grain this fall. It makes a real *milk-making ration!*

Feed pigs Ful-O-Pep Pig Starter in creeps ...saves labor...grows 'em fast!

What a pig feed! No wonder many feeders report pigs weighing up to 50 lbs. at weaning on Ful-O-Pep Pig Starter. It's *vitamin-rich!* It's a *quality* pig feed. Little pigs usually begin eating it when only 7 to 10 days old.

What a *labor saver!* No grinding . . . no mixing . . . no slopping! Just feed Pig Starter in the pig creep or pen as it comes from the sack! Supply water.

What nutrition, too! Ful-O-Pep Pig Starter is a carefully balanced pig feed . . . built around nutritious rolled oats and enriched with the amazing new *Animal Protein Factor.* It really grows pigs fast! Economical . . . too!

So, this year, start your pigs with Ful-O-Pep Pig Starter to hit *the early market.* Your neighbors will marvel at your big pigs at weaning time! Visit your local Ful-O-Pep Dealer soon . . . and send for free book, today.

*Reg. U. S. Pat. Off.

"LOOK FOR THIS SIGN FOR DEPENDABLE FEEDS"

It identifies your local Ful-O-Pep Dealer . . . one of your neighbors who sells Ful-O-Pep Poultry and Livestock Feeds. You can rely on him for practical advice on feeding and management. Visit him soon.

FREE HOG RAISING PLAN!

Let us send you this famous hog raising plan . . . proved by research to speed hogs to market.

MAIL THIS COUPON TODAY

THE QUAKER OATS COMPANY, Dept. H-37
Chicago 4, Illinois

Please send me FREE Ful-O-Pep's practical hog raising plan used by many top hogmen.

Name_____

Address_____

Town_____ State_____

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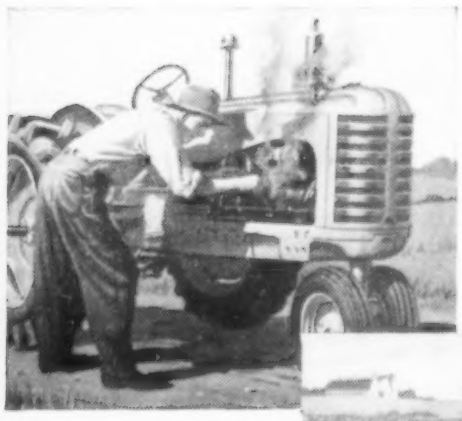
WHO SAVES MOST?



MR. SHORTSIGHTED

He is careless about his choice of motor oil . . . almost never changes it . . . loses valuable time and money when his engine breaks down!

MR. THRIFTYMAN

He chooses quality motor oil . . . changes it regularly . . . is rewarded with a smooth running engine year after year!

GET "Lubri-tection"!

Lubrication *plus* protection . . . Phillips 66 Premium Motor Oil gives you both!

It's a plain matter of dollars and cents! The thrifty, farsighted farmer knows it really pays to use a quality motor oil. Today, farm equipment is expensive. What's more, breakdowns can be costly at harvest time.

Phillips *66* Premium Motor Oil protects your equipment two ways . . . with lubrication *plus* engine protection. This quality oil contains valuable chemical additives to help keep engines clean . . . help prevent the formation of troublesome sludge and varnish. You get . . . *"Lubri-tection"*! Ask your Phillips *66* Dealer or Tank Truck Salesman for Phillips *66* Premium Motor Oil.

Worth Looking Into—PHILLIPS *66* TRACTOR TIRES

Your Phillips *66* Dealer or Tank Truck Salesman can now supply you with high-quality Phillips *66* Tractor Tires. Talk to him about this latest addition to the famous line of Phillips *66* products for the farm.

PHILLIPS 66 PREMIUM MOTOR OIL

LISTEN TO THE "PHILLIPS *66* NATIONAL BARN DANCE"
Sat. night, on your ABC Station. See your newspaper for time.

Service Bureau

Landlord Wants Bin Room

To the Editor: How much right does a landlord have? Our lease doesn't say a thing about bin room for his share of the crop. Now he wants some of the bins. Can he take the bin space he wants to use for his corn?—B. C., Taylor County, Iowa.

If a landlord doesn't reserve in the lease the right to store his share of crops on the farm, he can't do so without permission of the tenant. So he can't take the bins he wants unless you agree to it.

If your landlord puts his share of the grain in the bins without your permission, he would be liable for the reasonable value of the bins used.

Who Can Use Land Along Road?

To the Editor: I own land on both sides of a road. But my neighbor claims the road is public, and has been pasturing his cattle in the ditches. Does he have the right to do this?—Mrs. A. E., Wapello County, Iowa.

You are entitled to all the grass, berries and fruit that grow along this road. You also have to mow the weeds.

The public has an easement of travel over the road. But the land is yours, subject to the right of the public to travel over it. Therefore, your neighbor has no right to pasture cattle in the roadway without your consent.

Man Borrows Boar, Then It Dies

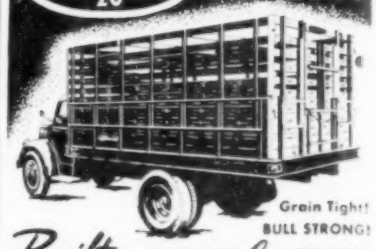
To the Editor: A neighbor borrowed my boar. The boar got sick after he had him a while. The neighbor didn't call a veterinarian or notify me till the boar died. Is my neighbor responsible for the boar.—V. N., Sioux County, Iowa.

Your neighbor is responsible to you in damages for the value of this hog. However, if he refuses to settle with you, your only recourse is to sue.

"Boy, am I knocked out! I dreamed I was milking cows all night—by hand!"

Compare **QUALITY!** *Compare* **PRICES!**

OMAHA STANDARD Over 20 Years



Grain Tight! BULL STRONG!

Built **to OUTLAST *Any* TRUCK!**

OMAHA STANDARD, "For over 20 years the Trucker's Standard." Built to take hard road and load punishment. Super-strong, flexible hardwood body — Hickory stakes — Oak slats—Edge grain floor, no exposed nails — Weatherproof enamel—Solid or slatted "grain tight" lowers. Installed on your new or used truck while you wait. Shipped anywhere.

- FOLDOWN
- TOPOFF
- STRAIGHT

Stock Models All Lengths for All Trucks

A *Better* BODY At A *Better* PRICE!

Omaha Standard never compromises with quality. Our policy of the *Best Body* and the *Best Hoist* at *Lowest Possible Price* has put more Omaha Standards on the road than any other make . . . Often copied . . . never equalled.

OMAHA STANDARD 10-Ton Low Mount UNDERBODY HOIST

Dumps any 10 ft. to 16 ft. body, new or used. Big 7-inch cylinder. Worlds of power. Low combination price when 10-ton hoist and body are purchased together.

See What You Get . . .
Write **for FREE Body and Hoist CATALOG!**

AVAILABLE *Everywhere*

Write, Phone or See Your Near by Dealer, Factory Distributor, Factory Branch or Factory! SAVE MONEY!

OMAHA STANDARD

• Factory and Main Office •
2411 West Broadway, Council Bluffs, Iowa
• FACTORY BRANCHES at Stockyards •
Omaha, Neb—36th and Q. Sts.
Sioux City, Iowa—1400 Dace St.
Chicago, Ill.—42nd and Halsted
Denver, Kansas City, Wichita, E. St. Louis

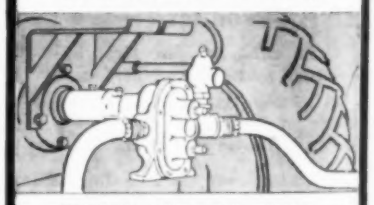
Direct Factory Distributors

Auto Steam Laundry, Des Moines, Iowa
H. P. Hostetter, Maquoketa, Iowa
E. Holby Body Co., Minneapolis, Minn.
Baker Bros. Motors, Redwood Falls, Minn.

Any dealer can get your Omaha Standard Body and Hoist for you.

DON'T BE CONFUSED . . . *THERE'S* ONLY *ONE* OMAHA STANDARD!

HI-PRESSURE SPRAYING with CONTINENTAL EVEN FLO Tractor Pump



THE ALL-PURPOSE PUMP

Spraying season's here and Even Flo's the low cost tractor pump for doing the job efficiently and economically. Attach to power take-off of ANY tractor; you're ready for spraying orchards, crops, livestock or fighting fires. Pumps up to 1200 gal./hr—highest pressure over 400 lbs.—pull over 20 feet.

Non-corrosive construction—brass and stainless steel. Self-priming—no belts. Comes fully equipped with hose fittings, by-pass safety valve and bronze screen.

Write for Free Color Folder.

CONTINENTAL BELTON CO.
BELTON 11, TEXAS

BE SURE TO SEE

The Spencer Farming Exhibit at the SPENCER CHEMICAL COMPANY display—Iowa State Fair

WANTED—Aggressive County and Division sales representatives. Full or part time. Sell well-known Culture products to feeders. Feeding knowledge and car essential. Submit qualifications, references to Box 23, Wallaces' Farmer and Iowa Homestead, Des Moines, Iowa.

— OUR ADS ARE NEWS —

You'll Like Fair's

Grandstand Shows

Thrill Days at Iowa State Fair will feature 20 stunt men headed by Joie Chitwood, daredevil driver. They'll keep you on the edge of your seat during the afternoons of Aug. 27 and Sept. 2.

"LET'S get tickets for the grandstand!" That's the remark you'll hear most often as you mingle with the crowd at Iowa's 1949 State Fair, August 26 thru September 2.

And small wonder! The afternoon and evening shows on the race track and the grandstand stage will provide plenty of fun and excitement for every member of the family.

Here's the way the grandstand program lines up:

Big Car Auto Races: Afternoons of Friday, August 26, and Sunday, August 28.

Stock Car Races: Afternoon of Thursday, September 1.

Thrill Days: Afternoons of Saturday, August 27, and Friday, September 2.

Horse Races (both harness and running): Afternoons of Monday, August 29, Tuesday, August 30, and Wednesday, August 31.

State Fair Revue: Every evening, August 26, thru September 2.

Three-Ring Circus: Every day, both afternoon and evening.

Fireworks: Climaxing each evening's grandstand show.

For more details on the 1949 Iowa State Fair, read the stories on pages 5 and 53.

Not Just one, but two Zacchini sisters will be shot from cannon at the same time—as part of Fair's grandstand circus.

This Bevy of beautiful girls will be on hand for the State Fair Revue of 1949, a two-hour musical show on the stage in front of the grandstand every night of Fair week, Aug. 26 thru Sept. 2.

BE SURE OF...
YOUR CORN CROP

Plant
Vinton
Hybrids

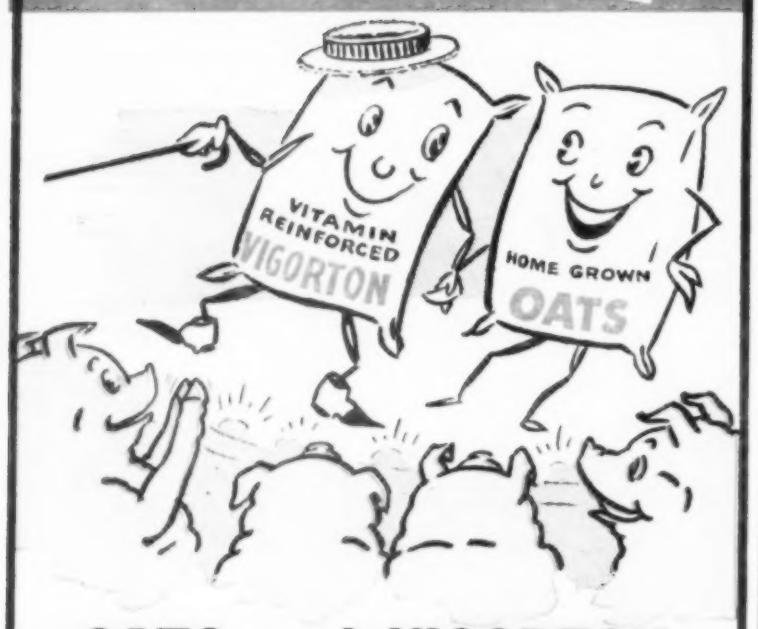
GROW----
MORE BUSHELS
MORE DOLLARS
..PER ACRE

- With prices leveling, farmers must now—more than ever—be sure of their corn crops. Yes—be sure the hybrid they select will grow every bushel possible from every acre planted. Vinton Hybrid gives that assurance.
- Vinton's special handling, careful *slow drying* mean always *high germination* and *high yield.*

There's a Vinton Hybrid Dealer in your community. Call him today and order your Vinton Hybrid Corn—or send direct to Vinton Hybrid Corn Co., Vinton, Iowa.

VINTON HYBRID CORN CO.
VINTON, IOWA

Don't Sell Your OATS!



OATS and VIGORTON make the IDEAL Summer Hog Ration

Wise farmers realize that they profit most by feeding their oats crop in combination with Vitamin-reinforced Vigorton. Oats with Vigorton make a ration that produces pork quickly and economically . . . a ration that is used successfully by farmers in every major feeding area in the nation.

Vigorton supplies adequate quantities of the vitamins, minerals, trace elements and live cell yeast so necessary to profitable hoglot operation. Best of all, Vigorton can be mixed with any home grain or combination of grains and proteins—right on your own farm. Vigorton is the quality leader—the big name wherever hogs are raised. Call in your local Vigortone Serviceman for help in planning a scientific ration which makes the most efficient use of oats and other farm grains. Farmers everywhere are enjoying greater security and profits with Vigortone feeding programs. Get these benefits for yourself. Consult the Vigortone Servicemen without delay!

The Vigortone Serviceman in your community is available to assist you with your livestock and poultry problems. He is specially trained in livestock nutrition and backed by a company with 36 years of successful service to farmers. Secure a copy of the FREE booklet shown at the right, describing almost half a hundred superior Vigortone products, feed supplements, medications and livestock and premise sanitation products.

VIGORTONE PRODUCTS, Inc.
CEDAR RAPIDS, IOWA

PREFERRED BY FEEDERS SINCE 1912

Low Cost HAIL INSURANCE

HAWKEYE MUTUAL HAIL INSURANCE ASSOCIATION

ESTABLISHED 1919 FORT DODGE, IOWA

BUY SAVINGS BONDS—THEY WILL HELP YOU LATER—BUY ALL YOU CAN—NOW!

Bring Kids To The Fair

STATE Fairs are made to order for the youngsters—and that includes those from 1 to 100. The 1949 Iowa State Fair will be no exception.

There will be a million things for the kids to see and do every day of the fair—from August 26 thru September 2. But here are a few special features you'll want to know about:

Children's Day at the fair will be Friday, August 26. Youngsters will be admitted to the grounds free of charge. And they'll have a special fun program of their own—a kiddies' jamboree in the grandstand at 9:30 a. m. It will feature clowns, trained animals, other circus acts, and daylight fireworks.

YOUNGSTERS will have a chance to win a free Shetland pony at the State Fair.

This year, the National Shetland Pony Congress is being held as part of the Iowa exposition. A blue-blooded pony will be on display at the Horse Barn thruout the fair. Youngsters can drop their names into a box from which a drawing will be made on the last day of the fair.

The winner, of course, need not be present at the drawing to win the pony. But here's one warning: Kids who slip their names into the box more than once will be disqualified.

IF YOU'RE wondering what to do with smaller children during your visit to the fair, here's the answer:

A day nursery will be maintained in the southwest wing of the Women and Children's Building. It'll be open all day and up until 11:30 p. m. Practical nurses will be on hand to take care of and entertain the children.

There will be a small fee for nursery service, and you'll be required to furnish food for your youngsters.

FOR youngsters—or anyone else who skin their knees or eat too many hot dogs—there'll be an emergency hospital on the ground floor of the Women and Children's Building. Doctors and nurses will be in charge day and night. The hospital service is provided by the American Red Cross.

OLDER youngsters will be interested in the quiz derby, in which teams of school children will compete in a question-answering contest. It runs every morning and afternoon in the Exposition Building.

"Nellie's different—with her, the milker stands."

MAXIMUM CAPACITY WITH A Century HYDRAULIC HOIST

DUMP ANY LOAD YOUR TRUCK CAN CARRY

. . . in 12 seconds . . . simply by converting your farm truck into a modern dump truck. Easy to install and operate, the Century is built for year-round heavy duty service. Low in cost . . . fits all standard trucks.

LOW MOUNTING

Century's simple compact design makes loading easier. Keeps load level down yet allows ample hopper clearance.

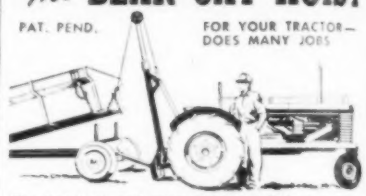
Write today for illustrated folder

DEALER INQUIRIES INVITED

CENTURY PRODUCTS COMPANY
5929 HIGHWAY NO. 7 MINNEAPOLIS 16, MINN.

The BEAR CAT HOIST

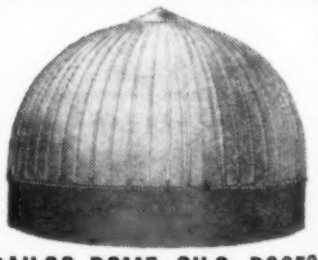
PAT. PEND. FOR YOUR TRACTOR—DOES MANY JOBS



The handiest and most practical Lift you have ever seen or used for unloading corn wagons without unhooking the wagon from tractor, lifting machinery, pulling out fence posts, stretching wire, lifting heavy weights of any kind, unloading and loading, and a thousand and one other farm jobs. Simple in construction, quick to attach or detach, uses hydraulic oil pump on your tractor. Made for most tractors that are equipped with hydraulic pumps. Light in weight. Leave on tractor. Does not interfere with take-off drive or hitch. Price $75.00 complete with wagon lift attachment. F.O.B. Hastings, Nebraska. Weight, 185 pounds. Total lift, 9 ft.

Write for full information and name of nearest dealer

Western Land Roller Co., Dept. WF-2
Hastings, Nebraska, Manufacturers



RAILOC DOME SILO ROOFS

to fit all silos and grain bins from 8 to 20 feet now available.

Write for name of nearest distributor.

RAILOC CO., Inc.
Plainfield - - Illinois

NEW Duplex HYDRAULIC SCOOP AND REVERSIBLE BULLDOZER & SNOWPLOW

For hydraulic equipped tractors. Hand lift model also available.

With this hydraulic scoop, you can dig, deliver, place more dirt faster, easier.

Write Today for Details and Literature
DUPLEX MANUFACTURING CO., Dept. A-3
21st and Locust Sts., East Omaha, Nebraska

BE SURE TO SEE

The Spencer Farming Exhibit at the SPENCER CHEMICAL COMPANY display—Iowa State Fair

RHEUMATISM

ARTHRITIS-NEURITIS-SCIATICA

If you suffer the agonizing pains of these diseases when the usual remedies have failed, learn about a new trustworthy, modern, non-surgical treatment method. This marvelous treatment is completely explained in the Ball Clinic's FREE Book. Write today. No obligation.

Ball Clinic Dept. 40, Excelsior Springs, Mo.

WORMY PIGS? Doctor Hinrichs' Hog Powder. Fed in feed. No starving. 8 lbs., $3 Postpaid. HINRICHS REMEDY CO., WALCOTT, IOWA

July 4th corn was nearly 10 feet high, showed promise of near-record yield. Carter Zwyers, Franklin county, Iowa, farmer, can barely reach the tassels. Corn was planted on May 3.

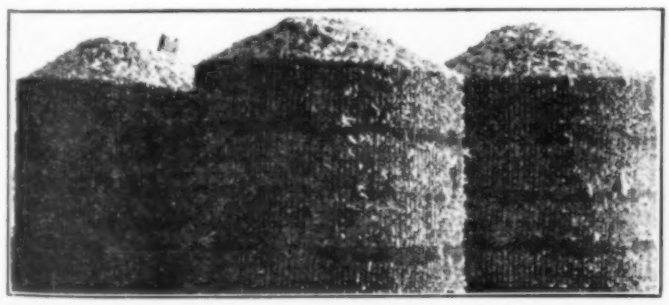
Seal Or Feed?

WHAT will you do with your 1949 corn crop? If you're like most Iowa farmers, you will (1) feed it or (2) seal it. Either way, you'll have to do something about storage.

If you're going to feed the corn this winter, you may just pile the corn outside. Or maybe you'll put it in snow-fence rings. But if you won't feed corn until next summer, or if you plan to seal, best bet is a permanent type crib. Whatever kind of a permanent crib you build or buy, here are two points you shouldn't overlook:

1. Strength—Corn puts a lot of pressure on side-walls. Make sure your crib will hold.

2. Rat-Proof—It doesn't pay to feed rats all winter. Rat-proof your crib if you haven't done so already.



Slat Crib or snow-fence cribbing will make temporary storage. But rats are a problem if corn is held long. Corn can't dry well in wide cribs, has to be moved or risk spoiling.

He Plans to reseal about 4,000 bushels of last year's corn crop, says Jerry Lutterman, Grundy county, Iowa, farmer. But he'll need more crib room before he can seal his 1949 corn.

BETTER BUILT
for safe, economical grain storage

WALSH Pre-Fabricated CORN CRIB

- 750 bushel capacity
- Electric welded 11-gauge galvanized wire siding
- Butler galvanized roof and galvanized base strip
- Rail steel angle iron sectional frame
- Easy to erect by 2 men in 2 hours
- No holes to drill. All necessary bolts and nuts furnished

DELIVERED PRICE
$220.00

Get safe, economical storage with a WALSH CORN CRIB. Hold your grain off the market when prices are down. Construction assures good circulation and fast drying for better grade of corn. Line with Kraft paper for temporary chopped hay silo.

LONG LASTING CONSTRUCTION

Each section 4 x 10 ft. Four sections to the ring, three rings high. Each section framed with strong 1½" x 1½" rail steel angles with four 1" x 1" rail steel vertical angle reinforcements. Frame painted red. All bolts and nuts cadmium plated. Electric welded galvanized 2 x 4 wire is securely pinned to sections, *(exclusive WALSH Feature)* no wires burned off or broken. Bottom ring has 2' x 4' door. Butler galvanized roof has ventilating cap and removable sections for filling. Rat proof 24" galvanized strip around base. No floor included. Dimensions 15½' high x 12' - 9' in diameter. Ask your dealer or order direct. Supply limited.

NATIONAL DISTRIBUTOR — BUTLER GRAIN BINS — ALL SIZES

SAVE YOUR BACK
GET A WALSH HYDRAULIC GRAIN DUMP

Simple, powerful and low priced. Makes your work faster, easier. Use it with flare, conventional, wood or steel boxes. Transfers from wagon to wagon. Simple to install. Fits any type chassis. Nothing to bolt to running gear. The Walsh Hydraulic Grain Dump dumps a 3-ton load in less than 30 seconds. Raises average box 5½ feet. 36-inch handle makes pumping unusually easy — quicker than jacking up a car. Powerful hydraulic jack can be used for many other lifting jobs around the farm. Built to take the beating required of any farm implement with an average operating expectancy of 10 to 15 years. Buy a Walsh — try it. Your money back if not satisfied. Ask your dealer or order direct.

MODEL 71 Walsh Hydraulic Dump Complete . . . . . Only $63.00
Additional box assemblies—$4.00 each

WALSH MANUFACTURING CO., Charles City, Iowa

Manufacturers of BOOM SPRAYERS • POWER SPRAYERS • ACCESSORIES HYDRAULIC DUMPS • ELECTRIC FENCES • FLAME THROWERS

This "A-Maize-ing" Moews Improved Hybrid 14

MOEWS "MASTER-MATING"

Look at SIZE of ears!

MOEWS IMPROVED HYBRID 14 has the ability to fully utilize good weather and good soil. Ears s-t-r-e-t-c-h out for maximum yields. Pictured here is Art Muehlig, Dunkerton, Iowa, in MOEWS IMPROVED HYBRID 14 cornfield, planted 1 and 2 stalks to hill, which averaged 100 bushels yield per acre.

See How "Stubborn" It is!

Planted thick, many hybrids have a tendency to go barren, but not MOEWS IMPROVED HYBRID 14. It has the "stubborn" will to make an ear on every stalk. When planted 19,000 stalks to acre on M. H. Harner farm, New Sharon, Iowa, practically every stalk made a big ear of sound corn, yielding 188.4 bushels per acre.

SEE HOW IT STANDS AND RESISTS STALK ROT!

MOEWS IMPROVED HYBRID 14 has greater inherited stalk strength and more resistance to stalk rotting than ordinary hybrids. These strong stalks are mighty important with corn borer population on the increase!

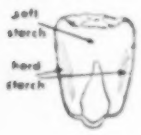
Because the MOEWS IMPROVED HYBRID 14 corn crop on the Leo R. Kaiser farm, Freeport, Illinois, outyielded crib capacity, large acreage was left standing through windy, wintry weather. It husked out high quality sound corn after March 1, when picture was taken with stalks erect.

Meets Sealing Requirements

MOEWS IMPROVED HYBRID 14 corn meets low-moisture requirements for government sealing. From all over corn belt, come reports, "driest corn in this area."

Up to 16% More Feeding Value!

A kernel of MOEWS IMPROVED HYBRID 14 corn, outstanding for feeding quality, is wide, thick, deep. It's so mellow you can bite into it easily. Inside is a big germ packed with protein and fat and surrounded with mellow soft starch. Livestock can tell the difference!



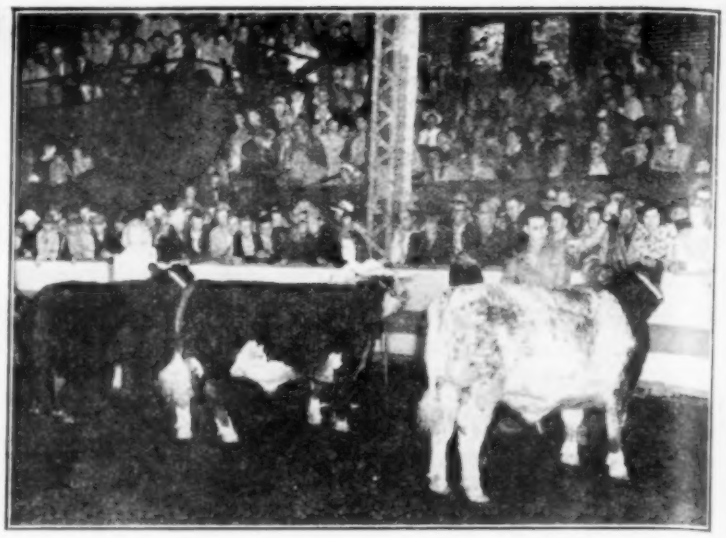
SEE US AT IOWA STATE FAIR August 24-September 2

MOEWS Improved HYBRIDS

MOEWS IMPROVED HYBRID 14 "MASTER MATING"

MOEWS SEED COMPANY, Granville, Illinois
Send free descriptive material on MOEWS IMPROVED HYBRIDS to
Name .....
Address .....
☐ Check here if interested in a MOEWS IMPROVED HYBRID dealership.

DETROIT PUBLIC LIBRARY

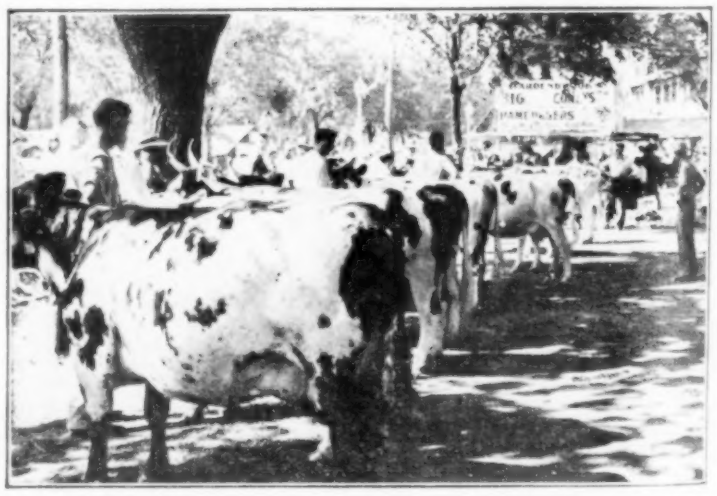


Competition always is red-hot when judges go to work on cattle classes. A leader in interest always is the big 4-H baby beef show. It's scheduled this year for Saturday, August 27.

At The Ringside

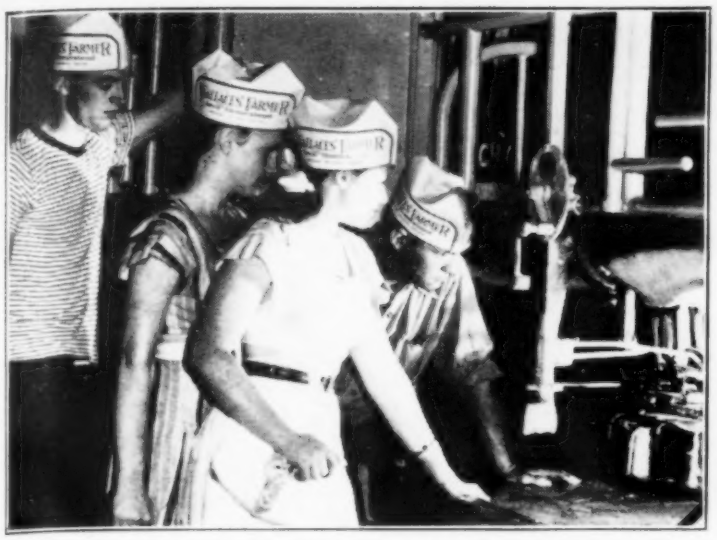
OFFICIAL judges at the 1949 Iowa State Fair will have plenty of help. A favorite spot for many visiting farmers always is down in front at one of the judging rings, where they can eye the prize livestock and either approve or disapprove the judge's placings.

You'll find a comfortable place to watch the judging in all livestock classes. And it's a good way to see the animals that will be competing for a record total of prize money.



Livestock classes often are so big that some must be moved outdoors to meet time schedules. When that happened to these Ayrshires at a recent fair, sidewalk judges got a good view.

There's always a big crowd at ringside when hog judging begins in the Swine Barn arena. This is a part of the judging program you won't want to miss. You'll find the schedule on page 16.



If You're interested in dairy farming, there'll be a lot to see at the Iowa State Fair this year. Besides judging of cattle (see below), you'll find dozens of interesting equipment exhibits such as this Wright county, Iowa, quartet studied at the 1948 State Fair.

Fair Rates High As Dairy Show

Big Entry List In Five Breeds Will Give You Good Chance To Try Your Judging Eye

IOWA is known far and wide for its corn and hogs. But the big dairy cattle show at this year's Iowa State Fair is expected to demonstrate again that this is a leading dairy state as well.

Many Iowa dairymen are included in the long list of entries in five major breeds. But the State Fair dairy show has a reputation far outside the state's borders. Top show strings from a dozen states will be on hand to provide stiff competition for local exhibitors.

A thumping $14,000 in premiums again has been set aside for dairy winners. This includes $2,800 for each of five breeds—$2,200 in open classes, $600 in Iowa specials, open to state exhibitors only.

Once again, Fair Secretary L. B. Cunningham has lined up a first-rate panel of judges. Placings in the big Holstein classes will be made by F. W. Atkisson, Manhattan, Kan. Guernseys will be lined up by J. P. Eaves, Chicago; the Jerseys by George Cooper, Ann Arbor, Mich.

Brown Swiss judge will be M. N. Lawritson, Lincoln, Neb. Ayrshire placings will be handled by Robert Seitz, Waukesha, Wis.

With these men in the ring, you will have a chance to see just what it takes to make a blue ribbon dairy animal. If you think you're a good judge of cattle, here's your chance to try your eye against the experts. Check the schedule below for judging time for each breed.

Dairy judging normally gets started with the bull classes. There are five of these—for bull calves, junior yearlings, senior yearlings, two-year-olds and aged bulls (three and over). Out of the first three classes comes the junior champion. Senior championship goes to the best bull over two years old. One of these two champions then is chosen to carry the grand championship banner.

Female competition is broken down into eight classes—heifer calves, junior yearlings, senior yearlings, two, three and four-year-olds, and aged cows. Eighth class is for cows of any age in milk, judged on their udders alone.

Again, blue ribbon winners under two years battle for the junior championship, those over two for the senior purple, with the grand championship going to the better of the two.

Each breed also will have five group contests in the open classes. They are for dairy herds (four cows), best three females, get of sire (four animals), junior get (four animals under two years), and produce of dam (two animals).

This year, both 4-H and FFA members will have their own dairy heifer competition.

DAIRY JUDGING AT FAIR

LIVESTOCK PAVILION

HOLSTEINS: 8 a. m., Wednesday, August 31; 8 a. m., Thursday, September 1.

JERSEYS: 8 a. m., Monday, August 29; 8 a. m., Tuesday, August 30.

GUERNSEYS: 8 a. m., Tuesday, August 30; 8 a. m., Wednesday, August 31.

BROWN SWISS: 8 a. m., Thursday, September 1.

AYRSHIRES: 8 a. m., Monday, August 29.

(Junior Dairy Heifer Schedule—Page 42)

FOR PROFITABLE FARMING—

Get better silage faster—at less cost with these proven NEW HOLLAND Forage Machines

New Holland's Farm Engineered Forage Harvester, Hay Chopper-Ensilage Cutter, and Forage Blower move your crops into the silo with minimum labor and waste

Save time—labor—money with this New Holland Forage Harvester

The Advantages of Putting Up Silage: Returns are higher from an acre of corn, alfalfa, soy beans or other crops if fed in the form of good silage. Larger amounts of dry matter, protein and carotene can be obtained by making forage into silage. Silage means dollars in better fattening—can cut veterinary bills. And silage is more palatable and succulent, is easier to handle, takes less storage space and requires less labor for processing.

New Holland's great Forage Harvester moves your feed crops from field to wagon to silo or barn in one operation—saves time, saves labor, saves expense, saves feed! Cuts clean, uniform lengths from 3/16 in. to 4 in. Slices like a knife—does not squeeze crops as in ordinary, scissors-type machines. Changes from row to windrow attachment, or back, in only 30 minutes!

The New Holland Forage Blower gets crops into the silo Fast

Pile your forage onto the extra wide feed table of your New Holland Heavy Duty Forage Blower. Positive feed moves it through extra-large 140-square inch throat opening for rapid blowing up 8" pipe. Handles up to 25 tons of corn per hour—up to 20 tons of hay.

New Holland's versatile Hay Chopper-Ensilage Cutter

The New Holland Combination Hay Chopper-Ensilage Cutter feeds, cuts to desired length, blows corn, hay or other crops to silo or mow. Extra wide table. Positive feed. 112-square inch throat opening for greater capacity.

NEW HOLLAND

World's Largest Maker of Pick-Up Hay Balers

New Holland Machine Company, New Holland, Pa.

A Subsidiary of The Sperry Corporation

MINNEAPOLIS • DES MOINES • KANSAS CITY • TORONTO

Free Catalogs giving complete details about New Holland Forage Machinery—and other labor-saving New Holland products. Please check items in which you're interested and mail coupon to:

New Holland Machine Co., 1808 Beaver Street, New Holland, Pa.

☐ Forage Harvester
Hay Pick-Up
Row Crop Attachment
☐ Side Delivery Rake
☐ Pick-Up Baler
☐ Baler Twine
☐ Bale Loader
☐ Forage Blower
☐ Hay Chopper-Ensilage Cutter
☐ Farm Milling
☐ Hammer Mill
☐ Cylinder Husker-Sheller
☐ Cylinder Corn Sheller
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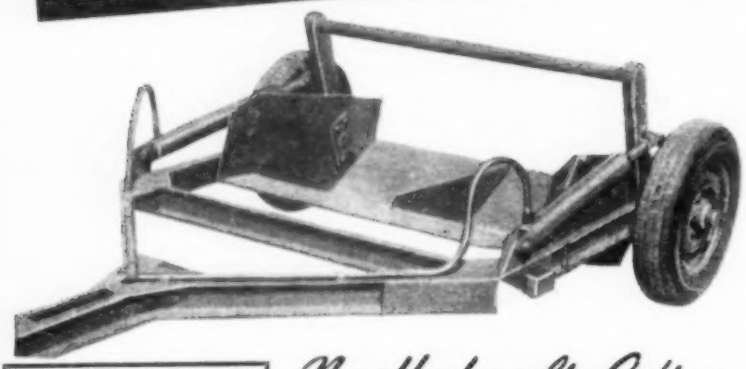
☐ General-Purpose Mixer

*Name*_____ *Street or RFD*_____

*City and State*_____ *County*_____ *Acres farmed?*_____

LEVELS and FILLS at LESS COST



Available In 4 Models

Model WR 100 & 200

Wheels of WR Models travel behind bucket and inside frame. Designed for working close to buildings, ditches, fence rows. Excellent for excavating silos, digging ditches. Model 100—54" cut. Model 200—72" cut.

Model WS 100 & 200

Wheels of WS Models are on side of bucket. Wide variety of uses makes it popular equipment. Compactness permits work in small space such as filling in foundations. Model 100—54" cut. Model 200—72" cut.

New Hydraulic Action SOIL MOVER

Do Your Own Soil Conservation, Irrigation Work . . . and Save!

Builds dams, terraces, dikes, flumes . . . fills in gullies, washouts . . . prepares waterways for seeding. Ideal for soil conservation . . . A MUST for irrigation work. Turns knolls to level land. Great help for general farm work, too. Cleans out yards and silos . . . fills in around buildings. You can gravel your lane or build loading docks. Helps in road maintenance. You'll find a hundred-and-one jobs for your Soil Mover!

It Loads . . . It Carries . . . It Dumps . . . without Stopping!

Carry the load . . . don't drag it. Bucket dumps backwards for easier load spotting and leveling. Makes it easier to fill those hard-to-get-at places.

Write for FREE descriptive literature TODAY! Write:

THE SOIL MOVER COLUMBUS, NEBR.

THE SOIL MOVER CO. Columbus, Nebr. Dept. WF-1

Look for this name... BOYT DES MOINES, IOWA

it's a mark of distinction on fine equipment

BOYT 5-STAR SADDLE

Here is the aristocrat of saddles—beautifully hand-carved by skilled craftsmen. So attractive you'll be proud to own it. So comfortable, you'll enjoy using it. Identify it by the dependable Boyt 5-Star emblem shown above. Also available in plain or stamped leathers.

BOYT 5-STAR GUN CASE. This fine gun case, pictured at right, provides complete gun protection, plus Quick-Zip Convenience. Properly balanced handle makes carrying easy. Zipper permits quick and easy insertion or removal of gun. It's a case you'll be proud to own. Made of fine flexible full-grain leather, full sheep-wool lined. Styled to fit most shotguns, rifles. Overall lengths, 44" to 54". Also made in canvas and plastic with either sheep-wool or felt lining, and in models for scope rifles.

OTHER BOYT ITEMS. Today, as for the past 48 years, Boyt is still making the strongest work harness in America. Also available are horse collars, body belts, tarpaulins, hunting and fishing equipment, English and Western riding equipment, and many other items of particular interest to the farmer and sportsman.

FREE CATALOG. Ask your dealer about Boyt products. Or if he is unable to supply you, write for free catalog to: **The Boyt Company, Box 1355-K, Des Moines, Iowa.**

Visit our booth at the Iowa State Fair in the east end of the main horse barn

BOYT CRAFTSMEN IN LEATHER AND CANVAS WHERE **STRENGTH** IS REQUIRED

Hot Competition In Junior Fair

More Than $28,000 In Prizes To Be Awarded To 4-H And FFA Contestants

VISITORS at the 1949 Iowa State Fair should take a good look at the young showmen in the 4-H and FFA livestock classes. They will be looking at the future purebred livestock breeders of Iowa.

Many of today's top livestock breeders got their start with 4-H or FFA projects which they took to county and state fairs. And from those beginnings came many of Iowa's purebred herds.

Some of them are the best, the most prominent herds to be found in Iowa.

So, if you have a memory for names, take note when the judges announce the junior show winners. You probably are hearing the names of young showmen who will some day have breeding herds of their own.

Some of the boys and girls showing calves and pigs got a lot of help from their parents. Maybe they got a calf from Dad's herd. It's almost a cinch that they used his feed. But these youngsters don't stay in debt to Dad for long.

On some Iowa farms, you find a purebred herd that Dad is mighty proud of. He will show you the prized livestock, talk about their gain and growth. Then you ask him: "How did you get started with this breed?"

Often, the answer is: "Why, it started originally with one of the boy's 4-H projects."

There's more than a chance that some of the junior purebred entries trace back to club calves shown years ago. And some of the former junior showmen not only exhibit stock of their own in open classes; they have even been called into the ring as judges.

A healthy sign for Iowa's livestock industry is this recruiting of new breeders. New blood, new ideas are needed in every business and activity. Recognizing this, the older breeders go out of their way to help young folks get their start.

This year, Iowa farm boys and girls will be competing for more than $28,000 in prizes, as well as ribbons and trophies. A total of $4,000 is for home economics projects.

More than $20,000 will go to 4-H-ers for prize-winning projects in livestock, poultry and honey exhibits, booth exhibits, agricultural demonstrations, and for county activity awards. In addition, there is a livestock judging contest.

FFA members will compete for more than $4,000 in prizes. An added class in FFA competition this year is dairy heifers.

Most of the money put up for prizes is contributed by the Iowa State Fair. But breed associations, firms and individuals have also provided for special cash awards and trophies.

FFA and 4-H members have their own hog and sheep classes, and will not compete against each other unless they meet later in the open classes.

Competition gets rougher when the youngsters take their calves, pigs and lambs into open competition. Tho they are glad to help the youngsters get a start, older breeders give no quarter in open competition.

A junior showman may run up against his father when he gets into the open classes. Then he won't have Dad to help. But in the junior ring, the competition is for juniors only.

Much of the top-ranking purebred junior livestock will compete in open show classes at the State Fair. The best market barrows are eligible for entry in the open barrow show.

It takes a host of judges, a lot of coordination, many workers, and a great deal of time and work to handle the junior division of the livestock competition at the Iowa State Fair. But everyone thinks that all this work is worth while.

The competition doesn't just teach the young showmen about livestock. They learn a deeper, even more valuable lesson. The youngsters enter the ring on an equal basis. Left behind is any advantage one of them might have had on the outside. Inside the ring, they are equal. They are on their own. And any position or influence Dad has won't help them. These kids are learning democracy as they learn about livestock.

Few other industries offer young people such opportunities.

JUNIOR LIVESTOCK JUDGING

FFA LIVESTOCK

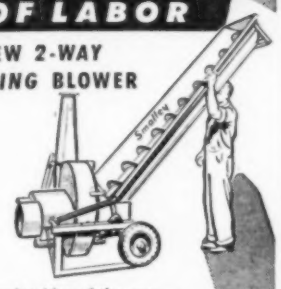
PUREBRED HOGS: 8 a. m., Thursday, August 25.
MARKET PIGS: 8 a. m., Friday, August 26.
MARKET LAMBS: 10:30 a. m., Friday, August 26.
PUREBRED LAMBS: 10:30 a. m., Saturday, August 27.
DAIRY HEIFERS: 8 a. m., Friday, August 26.

4-H LIVESTOCK

BABY BEEVES: 8 a. m., Saturday, August 27 (championships, 3:30 p. m.).
BEEF HEIFERS: 1 p. m., Friday, August 26.
DAIRY HEIFERS: 1 p. m., Friday, August 26.
PUREBRED HOGS: 1 p. m., Thursday, August 25.
MARKET PIGS: 7:30 a. m., Friday, August 26.
MARKET LAMBS: 8 a. m., Friday, August 26.
PUREBRED LAMBS: 8 a. m., Saturday, August 27.

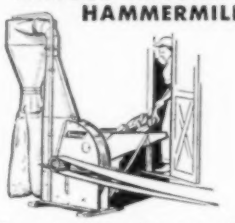
save TONS OF LABOR

NEW 2-WAY FOLDING BLOWER



The engineering idea of the year — see it demonstrated at fairs and dealer show rooms. ONE MAN in ONE MINUTE can: 1. Tilt it onto its air wheels for transporting. 2. Lift the 9-foot auger with one hand to let wagon drive thru. Blows all forages and grains.

FAMOUS HATCHET HAMMERMILL



A BIG Mill even small tractors can pull. First slices, then grinds. Knives and 4-way hatchet-hammers reduce ear corn, fodder and roughage for easy, fast grinding. Speeds feeding tremendously. Takes less power.

See demonstration at fairs or your dealer's—
Write for free folders and prices.

557 York St.
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Smalley MANUFACTURING CO.

Blue Ribbon Winners need Balanced Ration

Analysis of plants and soil often shows large shortages in minerals, vitamins and proteins, all necessary to make healthy animals, fast and solid gains, develop and maintain high production. You can step-up results with a proved Puritan feeding program . . . and cut your feed costs at the same time.

MIN-A-LAK is a mineral supplement with all known major and trace minerals plus vitamins.

PURITAN-40 is a rich 40% protein concentrate with all known amino acids.

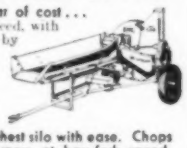
The Puritan man will gladly tell you about Puritan's feed-lot-proved feeding program . . . or write directly to

PURITAN Laboratories, Inc. Des Moines, Iowa

SAVE with the NEW Streamlined GEHL

ENSILAGE and HAY CUTTER

Get more value per dollar of cost . . . more value per acre from feed, with this new Gehl. Designed by experienced specialists in forage-cutting machinery. For years, thousands of Gehls have been BREAKING RECORDS for fast, clean cutting and easy running. Fills highest silo with ease. Chops hay and throws it into mow at hay-fork speed. Automatic measuring pump available for grass silage. Unbreakable flywheel, auto-type transmission, enclosed gears running in oil, ball bearings, and many other superior features. WRITE for booklet and name of nearest dealer.



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GEHL BROS. MFG. CO.
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There's Nothing Better Than a GEHL

Drains Cellars, Cisterns, Wash Trays, Ponds, etc.

LABAWCO Pump has 1,001 year 'round uses—farm, garden, farm. 1800 GPH. 3/4" hose. Uses 1/6 to 1/3 HP motor. Does not clog!

Postpaid if Cash with Order. Thousands in use since 1936.

LABAWCO PUMPS $6.95
BELLE MEAD 1, NEW JERSEY

U. S. SAVINGS BONDS ARE SAFE

Tips For August

Useful ideas for midsummer, suggested by farm management specialists at Iowa State College.

▲ ▲ ▲

FEED AND LABOR make up 70 to 80 per cent of the total cost of producing milk. So any step that will cut down on either feed or labor is good news to the dairyman. Dr. C. Y. Cannon, Iowa State College dairy specialist, says that feed costs may be cut thru using more high-quality roughage. Then you can use less grain.

▲ ▲ ▲

BIGGEST SAVING in dairying can be made in labor. Cows housed in a pen-type barn, with a small milking room, require less work. Doctor Cannon says all you need is a shed where the cows can keep dry, out of the wind, and reasonably comfortable. Most of our dairy barns, he says, are built for the comfort of the dairyman—not the cows.

▲ ▲ ▲

TO YOUR PEN BARN add racks for self-feeding roughage, feed bunks for silage, and a sheltered watering tank where the cows can drink at will. To this whole layout attach a milking room where the cows can be fed grain and milked—a few cows at a time.

▲ ▲ ▲

TAKE TIME OUT to play a bit. Take in your county fair. Visit the Iowa State Fair. Plan picnics. All work and no play is bad medicine for old folks, too.

▲ ▲ ▲

PLAN BUILDINGS that can be used for several purposes. One Wright county, Iowa, farmer is building some movable hog houses. He is making them extra strong, so they will hold shelled corn this fall. He figures the resealing fee will reduce cash cost a lot.

▲ ▲ ▲

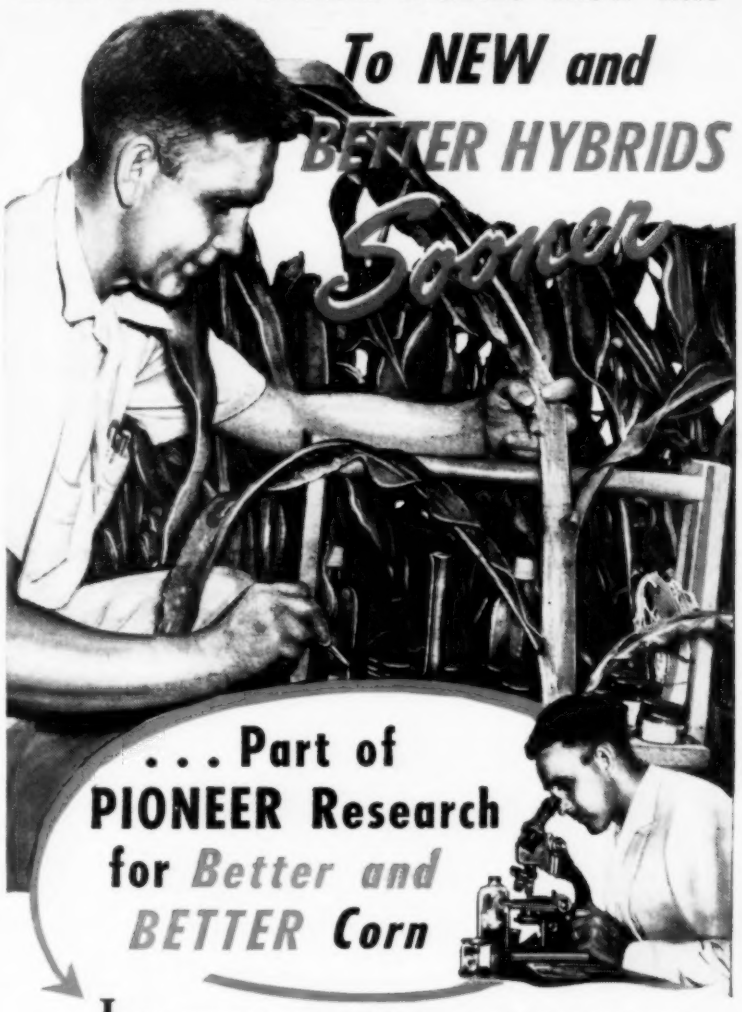
SLIMMER PROFITS seem ahead for poultry. Cut labor costs as much as you can. Lee Hill, Warren county, Iowa, built a feed supply room in the corner of his laying house. Feeding hens is a simple job for Mrs. Hill now.

▲ ▲ ▲

BE SURE your hogs have enough shade and water. A top-notch Story county, Iowa, farmer says this is a big part of the secret of speedy summer gains for hogs. A Johnson county, Iowa, farmer adds that the water and shade should be close together for best results.

"Aw, shut up!"

BOTANICAL & GENETIC STUDIES SHOW WAY To NEW and BETTER HYBRIDS Sooner



. . . Part of PIONEER Research for Better and BETTER Corn

In their research for better and better corn, our corn breeders study botanical and genetic relationships of inbreds, hybrids and open pollinated corn. They analyze the origin and history of corn belt corn. This information proves helpful in gaining a clearer insight into relationships and the combining ability of modern inbred strains. In studying inbreds critically, our corn breeders work not only with stalks, leaves, ears and other parts of the plant. They work with chromosomes of the reproductive cells as well. Their purpose is to determine which varieties are apt to cross well and produce greater hybrid vigor. They measure each variety for many characteristics and score it by points. They arrive at an index for each variety by adding its total points. They hope to tell by the index number of a variety if it will cross well with another variety. This plan will eliminate a lot of the old, hit and miss, trial and error methods of corn breeding.

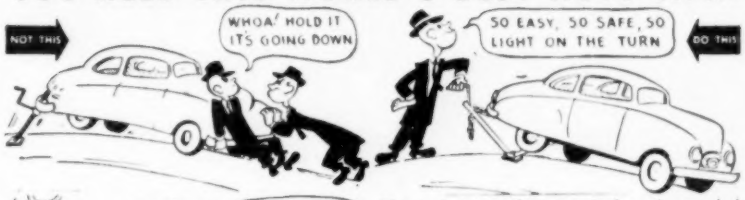
Corn at its Best!

Above, Dr. W. L. Brown, Pioneer cytologist, is shown taking young tassel branches from inside of inbred stalks. He uses them to study the chromosomes in male-reproductive cells.

Remember, better Pioneer hybrids are coming . . . many are here now. Ask your Pioneer salesman about them . . . and place your order now for next spring.

Make it All PIONEER Next Year

YOU NEED THIS WORLD'S BEST AUTO JACK



This is the Triangle Safety Jack you've needed for years. Built to do the "impossible" jobs of jacking up your car on hills, in mud and ruts. So simple and safe a child can use it. Slides under 2" axle clearance while you stand clear of car. Load is cradled on safety chain which prevents slipping or rolling. Fits old or new cars. Compact, one piece, all-steel construction. Over 200,000 satisfied users. If not at your dealers, send $10.50 direct. Postage paid if price accompanies order, otherwise C. O. D.

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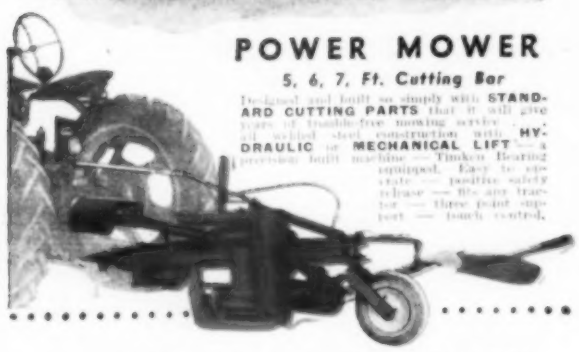

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Designed and built so simply with STANDARD CUTTING PARTS that it will give years of trouble-free mowing service. Of welded steel construction, with HYDRAULIC or MECHANICAL LIFT — a precision built machine — Timken Bearing equipped. Easy to operate — positive safety release — fits any tractor — three point support — touch control.

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Vertical and angular . . . height 18" . . . length 7' . . . . . fits practically all loaders. An efficient snow plow. A deluxe grader.

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Please send me detailed literature on your Power Mower, Dozer Blade, Wagon Hoist, Running Gear.

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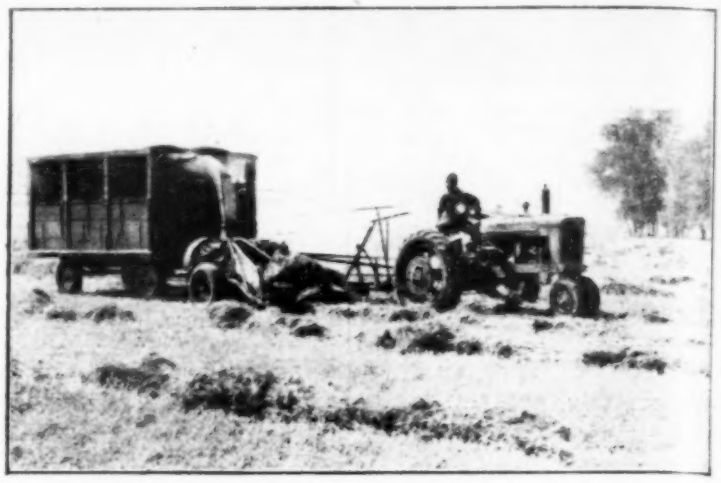

Chopped Hay is blown into wagons on the Ronald Coulter farm, in Grundy county, Iowa. Hay choppers are one of the three new haying methods that save labor in putting up hay.

New Hay Machines Save Labor

Extra Cost Should Be Balanced Against Labor Saved In Selecting Hay Machines

DID the past haying season make you want something new in hay machinery? Is there too much labor per ton, and too much sweat and dust in your present haying method?

The chances are that new hay machinery is made that will fit the needs of your farm. But before buying you want to know how much labor will be saved and how much the new machinery will cost.

You can see the machines and get a lot of labor and cost information at the Iowa State Fair exhibits, August 26 thru September 2. But before you look at them, it might pay to consider labor per ton and cost figures gathered from Iowa farmers in three counties.

In 1946, Iowa State College engineers studied the hay-making methods of a number of farmers in Linn, Johnson and Cedar counties. Hours of labor per ton and machinery costs were found for four hay-making methods.

1. The loader and power fork is the oldest hay-making method in use. It is still used for about one-third of the hay put up in Iowa.

On the Iowa farms surveyed, 3.2 hours of man-labor per ton were required to put up hay with the hay loader and power fork. This is the time required from the windrow to the mow.

The investment for this type of hay machinery is the lowest of all. The average new cost of the machinery used was set at $543 in 1946. Yearly depreciation and repairs were set at $47.

2. The one-man field baler is one of the new hay-making methods that is more widely used each year. Here are the labor and investment figures as found on the farms in three Iowa counties:

The one-man baler required 1.5 hours of labor for each ton of hay from the windrow to the barn. This is a little less than half the man-labor required by the hay loader outfit.

The cost of a one-man baler outfit was estimated at $2,365. This was the cost new in 1946. Yearly cost of depreciation and repairs was estimated at $409.

For a difference in cost per year of $362, you can save a little more than one-half the labor of putting up hay. This difference in annual cost is found by subtracting the $47 of repairs and depreciation required for the hay loader from the $409 needed for the baler.

3. Field choppers and blowers are another new hay-making method used more each year. Here are the labor per ton and investment costs:

The labor requirement per ton of hay from windrow to mow was found to be 1.2 hours. This is three-eighths of the man-labor per ton required by the loader outfit. It is one-fifth less than the labor required by the buckrake outfit. It is one-fifth less than the labor required for baling.

Cost of a hay chopper outfit with auxiliary engine was estimated at $3,186 in 1946. The annual cost for depreciation and repairs was set at $340. Cost of a smaller chopper with power take-off was estimated at $1,363. Annual cost was set at $140.

With the self-powered chopper you can save five-eighths of the labor, with an added annual machinery cost of $293. This is comparing the chopper with the hay loader outfit.

4. The buckrake is an old method of handling hay that has been greatly improved by the new tractor buckrakes. Here are the labor and cost figures from farmers in the three counties for 1946:

The buckrake required 1.[illegible] hours of labor per ton of hay from windrow to mow. This is just half the labor required by hay loader outfits and a little more labor than was required by baler or chopper.

Cost of new machinery for the buckrake type in 1946 was figured at $646. Annual cost for repairs and depreciation was estimated at $[illegible].

With this method, half or more of the labor can be saved, with machinery costs slightly higher than for the old hay loader method.

Cook Picking Beds PICK CORN CLEAN!

... in any weather!

The Cook Picking Bed permits you to run snapping rollers closer together, allowing them to snap more ears and save you around 80 per cent of the shell corn ordinarily lost in the field. Clean corn dries faster, shells easier. Field tested for 5 years. Easy to install, nothing extra to buy, shipped complete.

Save time, money and corn with the Cook Picking Bed

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HANDLES EAR CORN
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Complete with
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ON YOUR BINDER CARLSON Power Drive will convert your ground driven binder into a power driven binder or windrower. It will cut a full swath in any grain. Cut up to 40 acres a day at half fuel cost. Protect binder mechanism with the sensitive clutch. Eliminate costly parts replacement such as bull shaft, sprockets, bearings, power shaft, etc.

ON YOUR MOWER AND CORN BINDER CARLSON Power Drive will give you your added measure of safety, economy and cutting power on even your toughest cutting jobs. Direct power from the tractor power take-off to your mower or binder via CARLSON POWER DRIVE gives you the shortest route to cutting SATISFACTION!

CARLSON & SONS BERESFORD SO. DAKOTA

OUTSIDE STUFF

IF RACE 45 rust cut yields on your Clinton or Clinton-like oats this year, you may want to consider Cherokee oats, says Dr. H. C. Murphy, USDA plant breeder at Iowa State College.

• • •

Duane Linder, O'Brien county, Iowa, figures his bout with malta fever cost him from $1,500 to $1,700 in medical bills and hired help, plus the loss of valuable hogs and cattle in his herd.

• • •

LINDER says: "I'm highly in favor of compulsory testing for brucellosis on the same basis as the T. B. test. His outbreak of malta fever came just 21 days after he castrated pigs.

• • •

FROM the first-brood moths in June, Iowa had the largest corn borer egg mass counts ever recorded in the United States.

• • •

AND Harold Gunderson, extension entomologist, figures that only about 10 per cent of the badly infested corn was treated.

• • •

LOOK around your own corn fields. Are second-brood moths flying yet? Treat when the egg mass count averages one per stalk.

• • •

ONLY one accomplishment of my working life sincerely thrills me. Working for the old Farm Security Administration—whose name never should have been changed—I helped make loans to many young families. Sometimes they were so hard-up they barely had enough to eat: no other credit was available to start them on farms.

• • •

TODAY, not all of them, but many of them, are prosperous renters or are well on their way to farm ownership. No one has given them anything but a chance—and I helped do that.

• • •

I LIKE to visit those families. Some day, one of them is going to take me seriously and lend me the money to start farming. My neck would really be out then.—W. D. Inman.

"NO CORN BORERS IN MY STANDARD 813"
BYRON ROGLER
Atlantic, Iowa

Read What Mr. Byron Rogler Says!

Berry Seed Co., Clarinda, Iowa
Gentlemen: Last year I planted Standard 813. I was very impressed by the resistance of 813 to corn borer. There were other varieties planted all around the 813 and they were heavily infested with borer. This caused quite a lot of ear droppage and stalk lodging. The damage from borer to the 813 was hardly noticeable.
My 813 yielded around 80 bushel per acre which was above average in my neighborhood. This corn was planted on May 4th on second bottom. I like 813 because it has a very strong stalk, is deep kerneled, an excellent yielder, a good picking and feeding corn, and is apparently highly resistant to the corn borer.
I am going to plant 6 bushel of 813 this year.
(Signed) BYRON ROGLER
Atlantic, Iowa
March 4, 1949

STANDARD Multi-Perfected Hybrids

We don't claim STANDARD "Multi-Perfected" HYBRIDS are immune from corn borer infestation, but our customers have learned that our superior breeding, selection and processing develop hybrids that are no weaklings!

Just plant STANDARD "Multi-Perfected" HYBRIDS next to the very best you have been able to find thus far. It will pay you well.

Actual comparison on your farm will prove their exceptional performance. Extra yields, high quality and bigger profits will bring you back for a larger acreage next year.

"TRIPLE-TREATED"—Made Better 3 Ways

All STANDARD Multi-Perfected HYBRIDS are treated with Phygon XL and Spergon against damping off and seed decay. With D D T against insect damage.

STANDARD "Multi-Perfected" HYBRIDS are available in three general maturity ranges. Our "100" series—95 to 105 days; "600's"—105 to 115 days; "800's"—115 to 120 days.

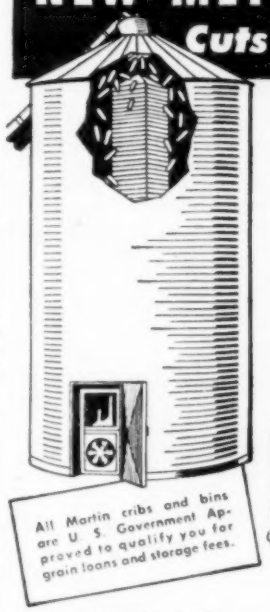
LOOK FOR THIS BAG AT YOUR DEALERS!

SEE US AT IOWA STATE FAIR • Varied Indust. Bldg.

Write for beautiful 4-color circular and name of your nearest dealer or agent.

BERRY SEED CO. HYBRID DIVISION CLARINDA, IOWA

NEW METHOD SAVES CORN!
Cuts Labor—Speeds Drying



All Martin cribs and bins are U. S. Government Approved to qualify you for grain loans and storage fees.

The New Martin Method enables you to pick corn early, dry it quickly, and reduce your handling labor to a minimum. Elevate your corn into the Martin High Round Crib which serves as ear corn storage as well as a drier. Natural or heated air is then blown through the corn to reduce the excess moisture. 1200 to 12,000 bushel sizes now available. Act now to eliminate all losses from spoilage, rats and weather. Durability and long life guaranteed by the successful experience of many users.

Store shelled corn and small grain with 100% safety, low cost!

The strongest grain bin made! All steel construction provides lifetime safety in storing shelled corn and small grain . . . fireproof, ratproof, weatherproof! Provides labor-saving convenience in filling and emptying. Bin, as pictured, is for storage of low moisture grains—easily adapted for use with forced air, heated or unheated, to condition high moisture shelled or ear corn and small grain.

31% Moisture Corn Stored Safely . . .

"The corn I put in my crib tested 31% moisture and is keeping OK . . . my neighbors had to shovel out their corn and sell it because it was spoiling."

Mail coupon today for details on how to protect your crops!

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823 Longview Ave., Mansfield, Ohio
Please send me complete information on: ☐ New Method of Conditioning Ear Corn; ☐ Storage Method for Shelled Corn or Small Grain; ☐ Martin Haymaker for Curing Chopped Hay; ☐ Martin Silo.
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Agricultural Chemicals

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Your Own Local Dealer

First Aid for Stock

Hens Go Lame, But Stay On Feed

To the Editor: My hens are laying well, and seem to be in good shape. But every few days one will get lame in one leg. The hens never get over this, but continue to eat and drink as before.—A. R., Wayne County, Iowa.

It is hard to tell for certain with the information given by letter, but we suspect that the trouble with your hens may be leucosis or range paralysis.

If an autopsy is held on a typical bird that has gone lame, you may find some yellowish-colored tumors in various internal organs. The marrow of the leg-bone may show a brick-red or reddish color. Eyes of the bird may be faded, greenish or almost white, instead of the usual reddish-bay color. These symptoms point to range paralysis.

Sometimes, especially in old birds, tuberculosis is the cause of lameness developing.

Will Oil Hurt Or Help Hogs?

To the Editor: In one item in your magazine, you suggest sprinkling crankcase oil on ground where hogs lie in the shade. But I have heard that crankcase oil can be harmful when applied to animals. Is this correct?—E. R., Winneshiek County, Iowa.

Waste oil poured on ground where pigs lie helps lay the dust. Thus it reduces the coughing common among hogs in dusty places. But we don't believe hogs would get enough on their skins to harm them.

It is true that in some cases where hogs have been sprayed heavily with oil, it has caused pregnant sows and gilts to lose their pigs. But this happened where oil was applied directly on the sows, not on the ground.

Kittens Shake, Then Die

To the Editor: Our kittens become stiff and wobbly. Then they shake continually, and in a few days die. Several older cats acted the same way.—Mrs. J. N., Audubon County, Iowa.

Your cats may be suffering from a heavy infestation of intestinal parasites known as "hookworm."

Treatment with carbon tetrachloride usually clears up hookworm. But it had better be administered by a veterinarian who knows how to give it to cats.

Your cats may have distemper. Young cats are especially susceptible to this disease. You can't do much after they get it, but vaccination against distemper seems to be effective as a preventive.

In most cases of this kind, an accurate diagnosis is needed before you can figure out the treatment. So any future cases should be discussed with your local vet.

"Now I Can SLEEP"

"Coffee nerves used to keep me tossing and turning. But since switching to POSTUM, I sleep soundly—and friends have commented on my improved appearance."

SCIENTIFIC FACTS: Both coffee and tea contain caffein—a *drug*—a *nerve stimulant*. So, while many people can drink coffee or tea without ill-effect—others suffer nervousness, indigestion, sleepless nights. But POSTUM contains no caffein—*nothing that can possibly keep you awake!*

MAKE THIS TEST: Buy INSTANT POSTUM today—then drink POSTUM exclusively for 30 days—*and judge by results!* . . . INSTANT POSTUM—A Vigorous Drink made from Healthful Wheat and Bran. A Product of General Foods.

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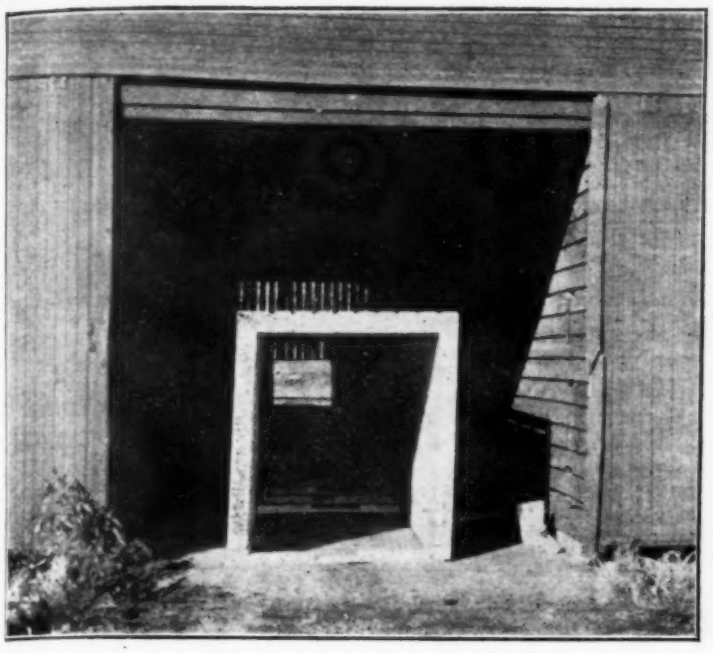
Full or part time to represent well known, advertised milking machine in your own neighborhood. Exclusive territory can be arranged for. Factory training, liberal cooperation, big commission. For complete information write WALLACES' FARMER & IOWA HOMESTEAD, Box 22, Des Moines, Ia.



It Is fairly easy to adapt almost any crib for drying your ear corn. Simple plans have been developed for almost every type of crib. Except for the 4x6-foot air duct, the driveway and both of the 8-foot cribs above were filled with high-moisture corn for drying.

Harvest Your Grain Early And Dry It

Experience Shows Well-Designed Farm Grain Driers Can Cut Storage Losses

ENGINEERS who have been studying the idea of giving weather a hand in drying farm crops are just as sure as they're local that farm-sized driers can put extra profits in your pockets.

Research men like Hank Barre and Art Cooper, of Purdue University, in Indiana, get enthusiastic about the potential value of driers on average corn belt farms.

Consider what a drier can mean to the corn grower. Some drier users already have made extra profits by picking and drying corn early in the fall and selling it as No. 2—at a time when that grade is scarce as hens' teeth.

There are other advantages, too. Storage losses due to high moisture can be avoided. Earlier picking can cut machine troubles and losses from bad weather.

In extreme cases, the difference in corn left in the field between early and late picking can run as much as 20 bushels per acre, says Purdue's Cooper.

Much the same advantages can be claimed for small grain. And the superiority of mow-cured hay over hay cured in the field is apparent to any dairyman who has tried it.

Sometimes a very narrow fluctuation in the moisture content of grain will cause it to spoil. Take wheat. At 14 per cent moisture, it might not be safe to store. But, at at 12 per cent, it is plenty dry.

Here are the maximum moisture contents at which various crops can be harvested or stored if you have a drier: Ear corn, 35 per cent; shelled corn, 26; wheat, 18; barley, oats, grain sorghums and soybeans, 20.

Compare those figures with the moisture maximum you could get away with if you were going to store the same crops in tight buildings with no mechanical drying: Ear corn, 15 per cent; shelled corn, 13; wheat, 12; barley and oats, 13; sorghums, 12; soybeans, 11; baled, chopped or long hay, 12.

You might as well squeeze the water out and make sure the crop will keep. And you increase your storage space at the same time.

If you intend to feed grain or hay at home, drying can make you sure it will keep. If you intend to put your grain on the market, you can collect for a quality product.

When you take 20 per cent moisture corn to the elevator, you get docked for the extra water as well as for the poorer quality.

Farm drier specialists now know pretty well what they want in the way of a farm-sized grain drier. They figure, for example, that a drier designed to work adequately on both shelled corn and hay will work on any other farm grain.

They find a need for flexible burners—a burner or pair of burners that might use anything from one to 10 gallons of fuel per hour. That will provide the heated air needed under all conditions.

Manufacturers of farm-sized grain driers have been working hand-in-hand with college and USDA research men to design machines that will get the job done. You can see the results by visiting the machinery exhibits at the Iowa State Fair.

Each year brings improvements and modifications in driers. As a result, the engineers now are saying that a drier can be useful and profitable every year, all year long. They've thrown out the old idea that a drier can make you money only in soft-corn years.

And they've pretty well proved their point on hundreds of corn belt farms already. Look the new grain driers over when you come to the Iowa State Fair.

The Original is still the Best

CASWELL Hydraulic LOADER FIRST

● With 45 years of manufacturing experience and 15 years of loader experience back of it, The Caswell Hydraulic Power Loader maintains its leadership in the field. The **first loader** of the past is still **the best loader of the present!**

CASWELL RIGID CROSSED-CHAIN STABILIZATION
PATENTED. Double lifting chains cross over top of single cylinder in an X, for complete rigidity in operation.

CASWELL FORK TILT CONTROL
PATENTED. Handy lever in operator's reach adjusts or "sets" tilt of fork to any desired position.

THE CASWELL CURVED GUIDE
PATENTED. Famous upright "bow" or curved lift guide holds mechanism firmly in line. Absolutely no side sway.

THE LOADER THAT LEADS ALL
In Exclusive Patented Features

BEING FIRST, we were able to originate and protect the many basic, common sense construction features which make The Caswell Hydraulic Power Loader so simple and safe to operate—so easy to mount and dismount. New ideas and improvements have been added each year to keep it in front—the loader that leads in efficiency, convenience and economy.

COMPLETELY MODERN
The Caswell single hydraulic master cylinder with crossed lifting chains gives tremendous balanced lifting power. No twisting strain on frame. Less load room. No excess weight.

LOW PRICE . . . HIGH QUALITY
See your Caswell dealer now—or mail in the coupon below. LOW PRICE of the Caswell will surprise and please you because you get more for your dollar in The Caswell than other loaders. Also full line of attachments, snow scoop, hay hook, loader blade, etc.

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TRY THIS IN YOUR OWN HOG LOT

You can't fool hogs on feed value. More feed value and palatability are bred into Lowe Improved Hybrids.

Make This Test Yourself.

Place a pile of ordinary hybrid corn and a pile of Lowe Improved Hybrid Corn in your own feed lot. See which pile the hogs eat up first. See how they clean up the Lowe corn, and how they leave the ordinary hybrid.

Next year you'll want your entire acreage in Lowe Improved Hybrids. Order your seed today. See your Lowe dealer or write direct.

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America's Leading Ready-Built FARM BUILDINGS!

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Iowa State Fair

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This fact has been proved more than 250,000 times in the last 33 years! More folks have bought KOZYs than any other Ready-Built Farm Buildings in the world!

WHY? (1) KOZY has always led with **improved design**—rounded roof, insulation, metal roof—warm, tight, ventilated, handy! (2) KOZY is **better built**—heavy materials, strongly reinforced, securely nailed and bolted! (3) KOZY uses **finest materials**—selected lumber, durable metal, special paint!

Grain Bin

Garage

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3 pen Hog House

6-Pen Hog House

Laying House

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Huge volume enables us to buy materials at lowest, wholesale, carload prices. Manufacturing in quantities, with special power equipment, we shave costs 'way down! You pay less for any KOZY—complete, all painted—than you'd pay locally for materials alone!

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WALLACES' FARMER AND IOWA HOMESTEAD
Des Moines, Iowa

Fall Pigs in Pottawattamie county, Iowa. Pigs and sows are running on legume pasture. The pigs will remain there after weaning, until winter weather forces moving them into the feed-lots.

Get Fall Pigs Off To Good Start

Hot Weather At Farrowing Time Can Be Costly Unless You Are Prepared For It

"I DON'T consider myself an especially good hog man, but I like to raise fall pigs," says Emory Kiger, Dickinson county, Iowa. "I like to raise 75 or 100 spring pigs and 50 or 60 fall pigs."

This year, he has nine sows to farrow September 1. There are two main reasons why he likes fall pigs. "They always seem to hit a good market, and the money comes at a time when you usually can use it," Kiger says.

Other farmers who thought 1949 fall pigs looked good because of the corn supply kept extra sows. One of those is Pete Johnson, Lyon county, Iowa, who plans on 200 September pigs instead of his usual 100.

He has skim-milk from 20 cows the year around, and always raises fall pigs to take care of the milk. He's switching from crossbreds to Minnesota No. 1.

"With good pasture, all of that skim-milk, plus supplement, I can get 100 pounds of pork for around 5½ bushels of corn. I doubt that hogs will go low enough to make it profitable for me to seal their corn, since I have the milk," says Johnson.

August and September pigs are apt to run into one hazard—heat. At farrowing time, if the weather is hot, experienced fall pig raisers stay with the sows just as they do in the early spring.

You can lose pigs from cold in the winter; in the late summer and early fall, you can lose sows and ruin whole litters from the heat.

"It doesn't take much cooling off if you're there at the right time," one man said. Try to get the individual houses in a shady grove, ventilate them, and keep the sows cool with water were his suggestions.

He added that a barn or hay shed is often cooler than a central farrowing house. If you do use a central farrowing house, provide plenty of ventilation. On hot days, keep the floor damp.

Fall pigs, even more than spring pigs, need clean, legume pasture. During the fall months, they seem able to store up some food elements on pasture to help carry them thru winter's bad weather and muddy lots.

If you farrow fall pigs in a central building, get the sows and litters on pasture as soon as possible. Help the pigs learn to eat with a creep and rolled oats or some other feed they like.

Seldom do you make any money stalling around with baby pigs. You may not always want to push hogs to market as fast as possible. But push them until they weigh 75 to 100 pounds. Then, if you want to hold back, you can feed just enough to keep them healthy and growing.

Go easy on the feed for the sows at farrowing time in hot weather. Keep fresh water for them. After the first few days, let the sows have all they want to eat.

Good hog men like to point to a prolific sow and say: "You can see, she milks like a Jersey cow." But sows have to be fed right for that important milk production.

It takes a well-balanced ration, including a protein supplement, to provide animal and vegetable proteins. It takes plenty of water. Skim-milk or milk by-products help. Legume pasture helps to cheapen the cost of the other feed. And it takes grain, salt, minerals and vitamins.

Water and shade are important to all the hogs on your farm at this time of the year. One is just about as important as the other. If you have August or September fall pigs, remember there will be hot days. And fall pigs will need shade, too.

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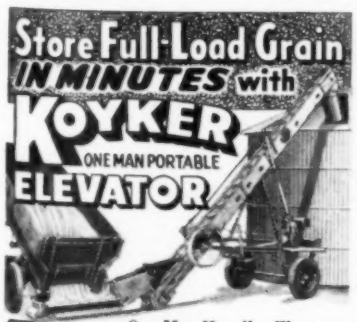

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Your youngsters were not born with the ability to drive a car safely. They had to be taught. How good a teaching job have you done? Ask yourself that question as you read this true story by N. J. Wardle, farm safety specialist at Iowa State College.

"SURE is raining hard, isn't it, Tommy?"

"Yes, the road's getting slick. Maybe we'd better slow down."

"Oh, bunk! It isn't slick enough to hurt any. Hank can handle the car okay."

The three boys were driving along a narrow dirt road. The Sunday rain poured down as they sped toward town.

"Hold tight!" said Hank, as they bounced over the bridge. Then they started to skid. Hank tried desperately to straighten the car and hold it on the road. But there was a turn. As the car skidded it struck some loose stones, tipped on its side, and slid sideways off the edge of the road.

Nobody was seriously hurt, and the car could be fixed. One boy had a broken nose, one had a black eye, the other had a gash on the head.

Older folks said the accident was due to the recklessness of young boys. Boys are bound to be careless until they grow up and learn by experience, they said.

Sure, experience is a good teacher. We learn best by doing. But do you have to cut off your own finger to learn that it will be very painful and won't grow back? Do you have to tip a car over to learn that 50 miles an hour on a sharp, wet curve is too fast?

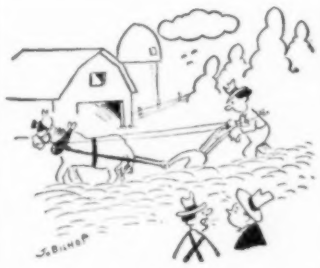
Experience is a good teacher, all right. But the smart person can learn from another's experience.

There has been plenty of experience in the driving of cars. No one needs to learn by the hit-and-miss experience method any more. We know that organized driver training produces safer drivers.

The cost of driver training programs in the schools is much less than the cost of accidents resulting from lack of training.

Boys aren't naturally reckless. They just want to show how good they are. So they'll go to great extremes to show that they're the best drivers in town. Best answer to such actions is education.

Remember: Be Alert—Don't Get Hurt.



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Slop-Feeding does mean more work. But many think it is worth while for growing pigs. Here, Adolph Erickson, of Emmet county, Iowa, slops late spring pigs. There are 64 pigs from seven litters in this bunch. They are being raised on alfalfa pasture.

New Oats Are Good Hog Feed

Brood Sows And Gilts Get Too Fat On Corn, So Use More Oats; Grind Them For The Pigs

OATS occupy an odd place in Iowa farming. Sometimes the crop is regarded as a necessary evil, to be grown only to change the rotation. On the other hand, livestock raisers look to oats as one of the finest grain feeds for young animals and dams.

Iowa wouldn't be such a great meat and milk producing state without her corn. But the meat animals and dairy calves wouldn't get off to such a good start without oats.

Oats are valuable as a feed for sows and gilts that will have fall pigs. They provide extra bulk and energy without the fat in corn. Fall litters sometimes come when it is hot as blazes. So hog men shy away from too much corn in the ration.

Oats and good pasture make an economical way to carry sows thru the summer. Good legume pasture plus oats can form the backbone of the summer sow ration. Altho the essential proteins, vitamins and minerals will still be required.

Oats are a good growing feed, too. When oats and corn are about the same price pound for pound, or when oats are cheaper than corn per pound, it is good business to use plenty of oats in the pig ration.

Most swine specialists, like E. L. Quaife, of Iowa State College, recommend grinding oats for pigs. They won't fuss much if you want to feed whole oats to mature hogs. But grinding is best for pigs, they say.

It is easy to start feeding new oats to pigs. You don't have to worry about digestive upsets, as is the case with new corn.

There are several ways to feed the oats. Most common is to grind them in with the supplements and other grain, and fill the self-feeders. This takes less labor.

But a lot of farmers say it pays to slop hogs. Especially in hot weather. And they like oats as the basis of the slop. They figure oats are an appetizer—a way to get more feed and more liquid into the pig. It's more work, but makes hogs gain faster, they say.

They feed corn, ground oats, the minerals and supplements in self-feeders or by hand, in addition to the slop.

Some like to use yeast feeds in the slop. Yeast is a high protein, high vitamin feed in itself. But feeding experts warn that yeast, like other proteins from single sources, does not, by itself, supply all the protein needs of hogs. You need several kinds of protein to get the best results.

When fall pigs arrive, hulled or rolled oats are a valuable early feed. As soon as the pigs get well started, you don't need the extra expense of hulled or rolled oats. But nothing beats rolled oats as a starter.

Later, you can switch to ground oats. Some of the early gains can be economical ones if you have plenty of good legume pasture and oats for the pigs and sows. Back them up with the other elements of a good ration—extra protein, corn, vitamins, minerals, salt, and lots of water.

Nebraska Brome Grass Yield Doubled

Yield of brome grass seed in Nebraska is double that of last year.

This is the report of C. R. Porter, manager of the Nebraska Crop Association.

Yields of certified brome grass seed are averaging right around 200 pounds per acre. Porter says this is about a normal year, tho heavy rains in eastern Nebraska have cut yields somewhat.

In Iowa, striking yield increases were obtained when nitrogen fertilizer was used on seed fields.

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QUIPS AND QUOTES

WHEN THE WHITE man discovered this country, the Indians were running it. There were no taxes, no debt, and the women did all the work. Let's get the Indians back.—Emmetsburg Reporter.

THE TROUBLE with most adults is that they think their school days have ended. — Lake Mills Graphic.

SCIENTISTS have traced man back to a fish. We have a hunch they're on the right track.—Dubuque Telegraph.

IT SEEMS LIKE Europe has always been a jigsaw puzzle with a peace missing. — Lenox Time Table.

ALL THE WORLD loves a lover, but not on a party line.—Manning Monitor.

A CHIP on the shoulder indicates that there is wood higher up.—Lake Park News.

AN OLD-TIMER is a voter who can remember when all congressmen put out was a few packages of garden seeds and copies of their speeches in the Congressional Record.—Webster City Freeman Journal.

AMERICA is the only nation in the world where a family can rise in one generation from a plain cabin to a cabin plane.—Algona Upper Des Moines.

HALF THE PEOPLE are trying to get something for nothing—the other half are trying to give nothing for something. — Guthrie Center Guthrian.

PEOPLE ARE FUNNY. Crows are shot because they are said to be expensive to have around. But storks are more expensive to have around, and nobody shoots them. —Zearing Tri-County News.

IT'S THE WOMAN who pays—but usually with some man's earnings.—Mason City Globe-Gazette.

TOO MANY OF US are prone to believe that the more noise we can make, the more convincing is our argument. But another version of the same belief is that the still sow is the one that drinks the swill.—Eddyville Tribune.

"Let's wait until he stands back to admire it."

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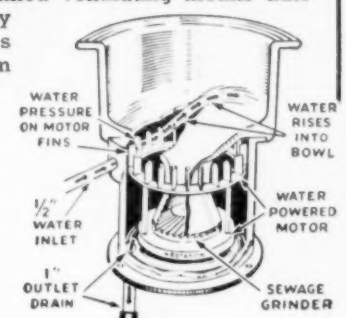

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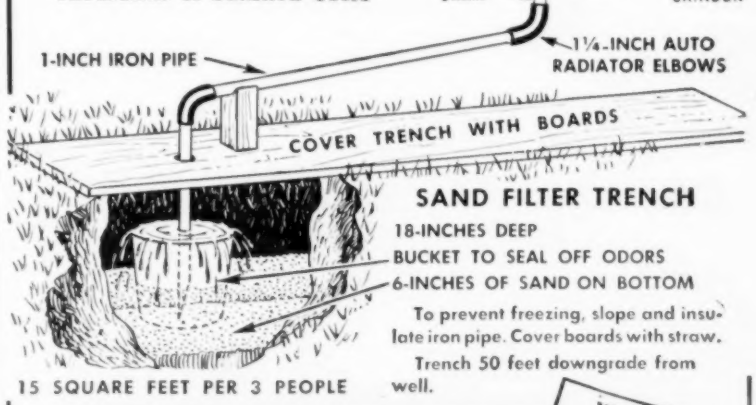

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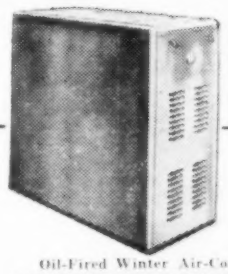

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A typical case of Overeating Disease.
Photo courtesy Colo. Agri. Exp. Sta.

Now, You Can *Prevent* Overeating Disease . . .

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Call your Veterinarian and have YOUR lambs protected this season. Think of the difference it can make in faster gains! And no worries from Overeating Disease losses! Your Veterinarian has full information on this new Bacterin, and will gladly give you complete details.

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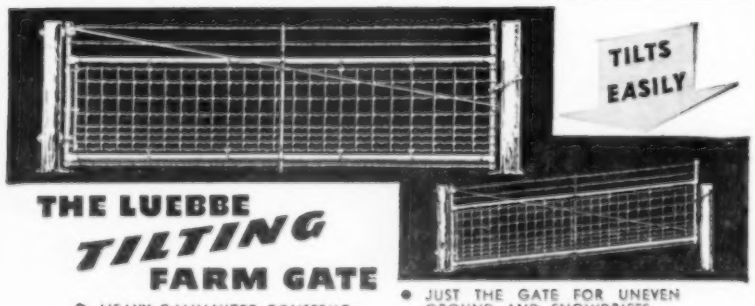

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OUR ADS ARE NEWS

Beef Men Point For Iowa Fair

Exhibitors For All Midwest States Will Offer Competition For Hawkeye Breeders

THE beef cattle show at the Iowa State Fair is much more than an Iowa show. When the entry books closed on August 1, beef cattle breeders from Texas to the Canadian border had asked for space to show their animals.

Again, Iowa breeders will have plenty of competition for the coveted ribbons. Last year, the cattle shown by Iowans got 17 of 36 first-place ribbons in the age classes.

Illinois breeders showed cattle that won seven firsts, Missouri cattle got six, South Dakota five, and Texas cattle one.

So, if you want to see the best cattle that the Mississippi valley produces, be at the cattle barns and the show-ring on the Iowa State Fair grounds from August 24 thru September 2.

You can see these purebred cattle in six age classes. There will be she-stock as well as bulls. And all the popular breeds will be there.

Prizes totaling more than $20,000 are offered for Herefords, Shorthorns, Polled Shorthorns, Aberdeen Angus, Milking Shorthorns and Red Polled cattle.

The judging ring is always exciting. It's interesting to watch the judges line up the cattle according to their ideas of quality. But the barns where the cattle are quartered may be even more interesting.

In the barns, you can study the types of beef cattle. You can compare the cattle with each other. But you can also consider how the cattle would fit into your own herd.

In looking at the cattle in the barns, you may be able to decide on type of bulls or heifers you want to buy to improve your herd. That's where you can get benefits as well as fun out of the State Fair.

There is not as much controversy over cattle types as there is over hog types. But there is a wide difference in speed of cattle gains when different animals are compared.

The difference between types of cattle is even greater when the performance in the feed-lot is considered. Some cattle get fat easily and show it. Others either don't get fat or don't show it so well.

If you can find out something about cattle types by looking at the cattle and talking to breeders at the Iowa State Fair, that alone might pay for your trip.

The baby beef show may help you to see what cattle should look like when they get to be choice beeves. This is a show for juniors, of course, and is limited to Iowa boys and girls.

In 1948, the champion baby beef was picked from a total showing of 423 calves. A big list of entries is expected this year.

Most of the baby beef entries at the State Fair are calves that have been champions or near champions at county fairs. The State Fair baby beef show is made up of champions.

That makes it exciting when the judges have to pick the top steer for Iowa. It's an event that always attracts attention. One year, a motion picture producer brought his Klieg lights and cameramen to make pictures of the championship round in the Iowa baby beef show.

With plenty of feed on farms, this year's cattle show should be the best since the war. An increased interest in cattle as harvesters of grass crops may also stir interest to unusual heights.

Some of the nation's leading judges will place the beef cattle. Selected so far are: Jim McClelland, Sulphur, Okla., Herefords; P. S. Shearer, Iowa State College, Shorthorns and Red Polled; George Edwards, of Ames, Polled Shorthorns; A. W. Kohley, Naperville, Ill., Milking Shorthorns.

P. S. Shearer, ISC, and R. E. O'Connell, of Morrell Packing Co., will judge the baby beef finals.

You'll get a good chance to look over some of the finest beef cattle in the midwest when you visit the Iowa Fair. Entries will be in open stalls and on view from 8 a. m. to 6 p. m. each day. In the evenings, parades of prize winners will be featured in the livestock pavilion.

Premiums for this year's beef cattle classes are at an all-time high. Nearly $17,000 is offered in the beef classes. More than $1,000 will insure a heavy run in the dual-purpose cattle classes.

SCHEDULE FOR BEEF JUDGING

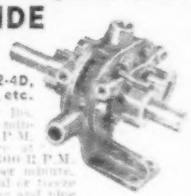
LIVESTOCK PAVILION

BABY BEEVES: 8 a. m., Saturday, August 27.
HEREFORDS: 8 a. m., Monday and Tuesday, August 29-30.
SHORTHORNS: 8 a. m., Monday and Tuesday, August 29-30.
POLLED SHORTHORNS: 8 a. m., Wednesday, August 31.
ABERDEEN ANGUS: 8 a. m., Monday and Tuesday, August 29-30.

DUAL-PURPOSE BREEDS

MILKING SHORTHORNS: 8 a. m., Wednesday and Thursday, August 31 and September 1.
RED POLLED: 8 a. m., Wednesday, August 31.

(For Junior Beef Heifers, See Page 42)

at Groban's
WAR SURPLUS BARGAIN!
Gear Type—All Manganese Bronze
INSECTICIDE PUMP
For Spraying DDT, 2-4D, Sulphur Compounds, etc.

Operates up to 200 lbs. pressure. 14 gallons per minute at 1200 R.P.M. Perfect performance at operating speeds 600 to 3600 R.P.M. May be adapted for use with power take-off, mounted on tractor, or tubing and pipe connection. Equipped with ½" standard pipe thread port. Wt. 10 lbs. Standard ½" manganese bronze shaft with keyway, ½" diameter.
BRAND NEW
U.S. Gov't Acquisition Cost $62.00 NOW $15.00
FREE—complete instruction and performance data with each pump.
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10 BUSHELS PER ACRE MORE NEXT SEASON?
The Answer Is
—RUHM'S—
PHOSPHATE ROCK
Put it now and spread any time. Fall or Winter. You'll see results first crop.
Ask Any of These Men!
Louis J. Reilly ..... Ryan, Iowa
Carnine and Douglass ..... Sac City, Iowa
Henry A. Bierma ..... Lorimor, Iowa
Craig Pettit ..... Mt. Sterling, Iowa
Geo. F. Ireland ..... Oskaloosa, Iowa
Clarence G. Taylor ..... Sibley, Iowa
I. G. Chrystal ..... Coon Rapids, Iowa
Robert Rocker ..... Bondurant, Iowa
J. E. HARRIS, State Rep., AMES, IOWA
RUHM PHOSPHATE & CHEMICAL CO.
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CHAMPION PORTABLE MILL
For Sale or Lease

The 100 H.P. machine has extra large capacity to feed or coarse grinding. Quick delivery. Small units with ground level automatic feeder, easy transport units to reliable men without investment or exercise. Buy later if desired.
CHAMPION PORTABLE MILL COMPANY
2105 Como Ave. S. E. Minneapolis 14, Minn.

Find out why a
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IS FAMOUS FOR LONG LIFE

The KOROK SILO is made of materials selected for durability. It will even handle hay silage without strain.
See our exhibit at the Illinois State Fair, Aug. 12-21.
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DEALER AGENTS WANTED
Make EXTRA PROFIT from big demand for steel bins for sealing under property improvement loan program. Some territory still available for live wire dealers.
WRITE for literature and prices NOW.
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Railway Exchange Bldg., Kansas City 6, Mo.

HAVE TOOLS HANDY on Your TRACTOR and Other Farm Machines

KOYKER Grease Gun Holster
KOYKER TRACTOR TOOL BOX
AT DEALERS OR WRITE KOCKER MFG. CO., HULL, IOWA

Buy Our Certified Seeds. Ky. 31 Fescue, Alta Fescue and Ladino Clover. Wholesale for dealers or farmers.
Montgomery & Robison Farms, Scottsburg, Ind.

Buy a Bond Today!

Special Fair Features

BESIDES the big grandstand shows and the midway, there are dozens of special contests you will want to see if you can when you visit the Iowa State Fair, August 26 thru September 2.

Here are a few of them:

Quiz Derby: Hundreds of school children from thruout the state will compete for cash and the state championship. Teams of three boys and girls will try to answer questions on world affairs, politics, sports and subjects they have studied in school. The contest will be on every morning and afternoon in the Exposition Building, with the public invited to sit in.

Sheep Shearing: Preliminaries in the adult shearing contest will be held at 10 a. m., Thursday, September 1, in the sheep arena, with finals at 2:30 p. m. The 4-H contest is scheduled for the sheep arena at 3 p. m., Wednesday, August 31.

Baby Health Contest: Nearly 700 Iowa babies will compete this year. Judging will be open to the public every day in the Women and Children's Building.

Horseshoe Pitching: A big entry list of barnyard golfers is expected to fight it out in three divisions: A class for farmers only; an open division for both city folks and farmers, and a junior division.

Team Pulling: Iowa's hardest pullers will compete in three weight classes. Lightweight teams will pull at the contest ground, just north of the Horse Barn, at 9 a. m., Wednesday, August 31. Middleweights will pull at 9 a. m., Thursday, September 1, and heavyweights at 9 a. m., Friday, September 2.

Checker Tournament: Checker sharks from all over the state will get together to match wits and collect $100 in prizes.

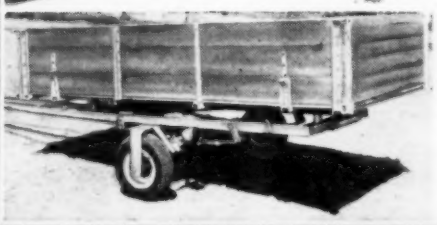
Old Fiddlers: Both men and women over 50 will produce some lively tunes as they seek to win the $100 in prize money. Contest site is the assembly tent south of the bandstand.

GI Farm Family: Veterans' families from nine districts of Iowa will try for a free trip to the International Livestock Exosition. This contest, first held last year, is sponsored by the State Fair, the American Legion and Radio Station WHO.

"Remember, men, in this business the man with satisfied customers is a poor talker."

Iowa STATE FAIR News
New, Labor Saving Farm Equipment You'll Want to See
CORN PLANTER Attachment

Model 102, Universal Corn Planter attachment converts horse drawn planter to Ford or Ferguson Tractor by inserting only 3 pins.
Makes valuable, practical, 4 or 2 row corn planters for tractor operation out of your old two row, horse drawn planters. Easy to maneuver. Does a perfect job of planting and checking in corn.
Harrow Evener

Needed on every farm for high speed, light draft, harrowing. Makes 4 or 6 section harrow pull, turn and handle like 2 section harrow.
Pulls through gates, holds all sections in line. Saves Fuel, Saves Time. Mounted on rubber tired wheels. Acts as harrow or disc transport. Send for FREE circular, or see it at the State Fair.

Auto Trailers
Practical, all-purpose auto trailer with reinforced box, Timken roller bearing wheels, non-whip trailer coupling and many features of construction.
Auto-boat trailers with one-man operation and other exclusive features will also be shown at the fair. Write for circular.
Schenkelberg MFG. CO.
CARROLL IOWA

BETTER-BILT Convey-All
HINGED SIDE ELEVATOR
Elevates all small grains, ear corn, beets bales and crates faster, more economically
• IT'S BUILT TO TAKE ABUSE! THERE ARE HUNDREDS IN USE!!

Immediate Delivery!
WRITE FOR Free Folder
BETTER-BILT MANUFACTURING CO.
50th Ave. N. & W. Broadway
Minneapolis 12, Minn.

FOR YOU SUBSCRIBERS
THE SERVICE BUREAU OF WALLACES' FARMER AND IOWA HOMESTEAD WORKED FOR YOU DURING 1949
More than 42,000 pamphlets and booklets on many subjects were mailed to you who asked for them.
Service bureau editors have personally answered thousands of letters . . . requiring many hours of research to gather the facts and figures . . . to help you.
Rewards were paid to many of you Service Bureau members for the information leading to the arrest and conviction of thieves who had stolen property from Iowa farms. . . . This service is for your protection.
Wallaces' Farmer and Iowa Homestead is pleased to have been able to give you this kind of personal service and advice.
Serving the Iowa Farmer for More Than 94 Years
WALLACES' FARMER AND IOWA HOMESTEAD
DES MOINES, IOWA

Homemaking Department

Edited by **ZOE MURPHY**

Cookies, cakes, pie crust, muffins, rolls and doughnuts—all in boxes practically ready to use. Every time you go into your favorite grocery store, you can find a new "mix."

Cooking Short-Cuts

IT'S NOT only Grandmother who is surprised at what we can find on the shelves of our favorite grocery store. I'm surprised, too, and so is the bride of the last month. For nearly every time we go into the store we can find a new mix on the shelves.

When these mixes were in the experimental stages, some were fine, but others were not so good. I remember, particularly, a cooky mix that didn't get over so well with my family. But that was soon after the war, and there were shortages of some things that make cookies good.

I've tried a good many since that time, and, in general, we think they are fine.

Probably everyone is familiar with the biscuit mixes. They were early on the market. I wasn't so experimental-minded in those days, and had the feeling that if anything was easy, it was wrong.

But the first time I used the biscuit mix was in strawberry season. We like the biscuit type of shortcake—and there is something about mixing up biscuits the last minute before we sit down to a meal that has always been hard for me.

Oh, yes, I know they can be prepared ahead of time and left in the icebox—but I never seem to operate on such an efficient basis. Anyway, I was delighted to have hot, fluffy biscuits with a minimum amount of work. Since then, I've been a push-over for the things that come out of a box all ready-mixed for me.

Take cake mixes, now. You can get almost any kind of a cake out of a box. There are plain cakes, and fancy ones, and they are all practically fool-proof.

Almost everybody has tried the gingerbread cakes — they have been around longer than some of the other varieties. But there are chocolate cakes and white cakes and sponge cakes, put out by a number of different companies.

In some of these cakes, you add your own eggs plus the right amounts of liquid. In others, you just have to add the liquid. Both types of mixes make good cakes—different, of course—like the recipes in your own cake file.

You can even get cake toppings out of boxes. These come in different flavors, are easy to prepare, and are always good.

Muffin mixes are good, too. They add to any meal—morning, noon or night—especially if you serve honey or marmalade along with them.

When you have your own lard, a box of pie crust may seem like a luxury. Still, when you think of times you've had to mix up a pie in the last five minutes before you planned to eat, it's not a luxury—it's a convenience. You can even buy a combination of pie crust mix and dehydrated fruit to go with it.

There are hot rolls that can come out of a box—and doughnuts, too—tho, for my own family, I've found a box is too small. But that may be because we like lots of rolls as well as lots of doughnuts. But I know several families that keep a couple of boxes of each on their emergency shelf in the pantry.

Now, I know that dehydrated potatoes aren't called a mix—yet they are new and practically mixed. You can get a small box of these potatoes. Add a cup or so of hot milk and stir, and you have a kettleful of mashed potatoes.

We had potatoes in our basement last fall, but on Thanksgiving day the top of my stove was pretty well in use, so I used the dehydrated potatoes. Our guests all came into the kitchen to watch the process. They were much more interested in the potatoes than in the turkey.

Then there's the new whipped cream. It isn't an economy, especially if you have your own cream. But it is fun to buy the new packages of whipping cream that have a gadget full of compressed air in the box.

When you press in the right place, the cream comes out whipped and in a ribbon all ready to make an attractive design on your cake or pie—if you are artistic.

It's not just the kids that will want to decorate the cake.

Now, I'm not advising you to burn up all of your recipes to make room on your cupboard shelves for boxes of mixes. I shall always want to make the sour-cream chocolate cake from the recipe that Mother gave me—especially when I happen to have the sour cream on hand.

And I will probably always make my own angel food cake when the chickens are laying lots of eggs—and so will most farm wives. Most of the time I'll mix up my own biscuits and pie crust.

But there are plenty of times when I am rushed or tired, or when I have unexpected company, that I'm glad to use these mixes that are available. And, when I follow directions exactly, I'll never have a failure.

That reminds me that I noticed a new coconut macaroon mix in the store last night. I must try it out!—Z. R. M.

Freeze Corn On Or Off The Cob

Mrs. Miles Mallams, Henry County, Iowa, Prepares Sweet Corn For Home Freezer

Mrs. Mallams selects sweet corn at just the right stage. It is important to process it as soon as possible after it is gathered, for the sugar turns to starch quickly. Janis and Marlene help their mother remove the husks and the silks.

Mrs. Mallams drops ears into rapidly boiling water five minutes. Ears are cooled in ice water before the corn is cut off the cob.

Janis gets the air and moisture-tight containers ready for her mother to fill with the cut corn. Corn on the cob is wonderful, but it takes up a great deal of space in the freezer. It should be used for special occasions.

How to make the most of minutes in the kitchen!

Bake once a month—Prepare meals ahead—Do your "Canning" with a Coolerator "Family-Size" Freezer!

Yes, it sounds like magic, but that's how thousands of fortunate homemakers save time, steps and effort with Coolerator "Family-Size" Freezers. Their families enjoy the widest variety of fine foods, too, because their Coolerators provide ample capacity for safely storing meats, fruits, vegetables, fowl and seafood—and still leave lots of room for baked goods.

This finer living actually costs them less because quality foods are so much cheaper when you freeze your own fruits and vegetables—slaughter your own meat—or buy your food in large quantities at lowest prices. Many Coolerator owners report savings up to 30% on their food bill. Ask your Coolerator dealer for a demonstration of the "Family-Size" Freezers.

It doesn't cost—It pays to own a Coolerator!

Illustrated above is the new 10.3 cu. ft. Coolerator "Family-Size" Freezer which safely stores 350 to 400 lbs. of food. You can have it delivered to your home for as little as $35.00 down.

At the left is the 15 cu. ft. Coolerator designed for the average size family—actually stores over a ¼ of a ton of food. Satisfaction on both freezers assured by Coolerator's 5-Year Warranty on the mechanism, and the 5-Year Food Protection Plan.

OPERATES FOR A NICKEL A DAY

The hermetically sealed unit never requires oiling—quiet automatic operation—cuts electric costs to the bone.

See them at your Coolerator Dealer's and at the IOWA STATE FAIR

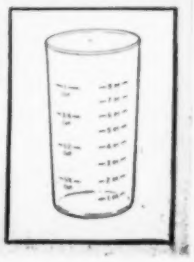
Coolerator "Family-Size" Freezers will be displayed by the G. W. Onthank Co. in Space 127-135 Varied Industries Building at the Iowa State Fair. Be sure to stop in for the interesting demonstration. See for yourself why a Coolerator will save you time, work and money—actually pay for itself in savings. No other appliance can help you more or save as much for you.

While you're there be sure to see the Coolerator Flavor-Saver Electric Ranges and Freezer-Chest Refrigerators.

Copyright, 1949, The Coolerator Co.
W. F. (8-6-'49)

SPECIAL STATE FAIR GET-ACQUAINTED OFFER

The G. W. Onthank Co. will be happy to present this attractive measuring glass to homemakers who stop in at Space 127-135 Varied Industries Building for a demonstration of the Coolerator "Family-Size" Freezer during the Fair. There's no obligation. Merely fill in the coupon and present it at Space 127-135.



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CITY _____ STATE _____

THE COOLERATOR COMPANY, DULUTH 1, MINN.

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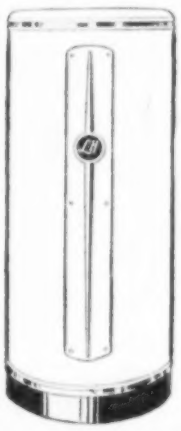
LECTRO L&H HOST

Automatic
ELECTRIC RANGES
WATER HEATERS

L & H Sheridan
DELUXE ELECTRIC RANGE

Enjoy the range with Vari-Speed control. No need to guess whether "high, low or medium" is the right heat. The L&H Vari-Speed switch gives you any heat from simmer to sizzle . . . not just 3, 5, or 7. That's why foods are so temptingly delicious when prepared on an L&H. See the range that makes good cooks better.



L&H STORAGE TYPE WATER HEATER
WITH EQUATO-RINGS

Keep yourself in "hot water" with an L&H Automatic Electric Water Heater. Now at the turn of the tap you can have an abundance of hot water . . . pure enough to drink, safe enough to bathe the baby. The L&H operates with the efficient "Equato-Ring" heating units that cut down lime formation and give you clean hot water at low cost. Magnesium rod retards corrosion.

Distributed By
BROWN-CAMP HARDWARE COMPANY
DES MOINES 6, IOWA

Manufactured By
A. J. LINDEMANN & HOVERSON CO. MILWAUKEE 7, WISCONSIN

WEAR FURS AND SAVE MONEY

Cownie's BLUE BOOK OF FURS

NEW Fur Book FREE—Direct from Cownie's

Cownie Furs

Yes, you SAVE MONEY owning and wearing a warm COWNIE FUR!

A beautiful COWNIE fur coat or jacket costs you less because it outlasts several ordinary coats. Lifetime guarantee. Many cloth coats and furs wears of outlasts several ordinary coats. Mink, muskrat, Persian lamb, Dyed Coneys, etc. Beautiful styles, tailored by our own factory. Write today for new Fashion Book of Furs. We can fit you and please you by mail.

ALSO COWNIE FURS FROM YOUR OWN SKINS

All farm hides and raw fur skins—beaver, mink, raccoon, red fox, silver fox, etc.—expertly tanned and beautifully styled to your order at low cost. 40 years experience. Use your own skins, and save. COWNIE'S will furnish any satisfaction guaranteed. Low factory prices, supply cost, extra skins required of your own skins. Hides, coats, rugs, and skins finished into handsome, durable coats, rugs, and skins. Write today, we will send catalog and send styles, prices, and complete information.

COWNIE FURS
510 Market Street
DES MOINES
IOWA

Iowa State Fair Visitors Invited to Our Factory Show Rooms

VISIT
Our Interesting Display
at the FAIR

Talk with the hostesses. You may be acquainted with some of them. There are plenty of chairs and lots of ice water, also a full-length mirror for your convenience.

WALLACES' FARMER AND IOWA HOMESTEAD
East End of Varied Industries Bldg.

Mrs. J. P. Bremhorst, Wapello county, Iowa, has a completely modern farm home. Her kitchen is attractive and convenient, with plenty of cupboard space and equipment.

New Equipment Eases Farm Living

If You Plan To Buy New Equipment, You Will See Latest Models At The Iowa Fair

YOU can be more "choosey" in selecting household equipment now that it is more plentiful.

At the State Fair, you'll have a fine chance to compare makes and models. With 89 per cent of Iowa farm homes supplied with electricity, it's a safe bet you'll want some electrical appliances.

If it's a washer, you'll want to check on sturdiness, safety and convenience. Also speed and the completeness of the job it does.

In regular washers, there's a de-luxe model with stainless steel tub, a safety release you can't help but push if you get mixed up in the wringer. It immediately opens the rolls as well as stopping their turning.

There are cylinder and agitator types of automatic washers. The vanes of the agitator are shaped to give more vigorous action at the bottom—more gentle at the top.

One interesting automatic model floats suds and scum away over the top of the metal tub. When the washing is done, the agitator stops and the tub starts whirling to remove the water. Heavier dirt goes out at the bottom. The rest of the water is whirled out over the top of the tub.

More farm families are getting electric dishwashers all the time. Mrs. Cecil Eggleston, of Hardin county, Iowa, has one where a door in front drops down and lets the dish-rack roll out for easy filling.

You fill the container with the required amount of detergent and close the door. The dishes are first rinsed in clear water, next washed in soapy water, then rinsed three times in hot water.

If you aren't interested in large equipment, you might be interested in electric mixers.

A little one has a triple beater, and a light that shines right into the bowl. It's handy to carry to the stove for special beating.

Then there's a heavier duty machine. The head is not portable; the bowl sits still while the beaters travel in a circle. You'll like its meat grinding and colander attachments.

With another popular model, a food chopper comes as regular equipment. With most, you have to buy such attachments extra and a driving unit to operate them.

Be sure to buy a mixer that has plenty of power for the work you will want it to do. A mixer with a 180-watt motor has 50 per cent more power than a 120-watt motor.

Don't leave the fair without looking over the improved vacuum cleaners. If dusting is your main need, either the tank type or the so-called bagless type will fill the bill.

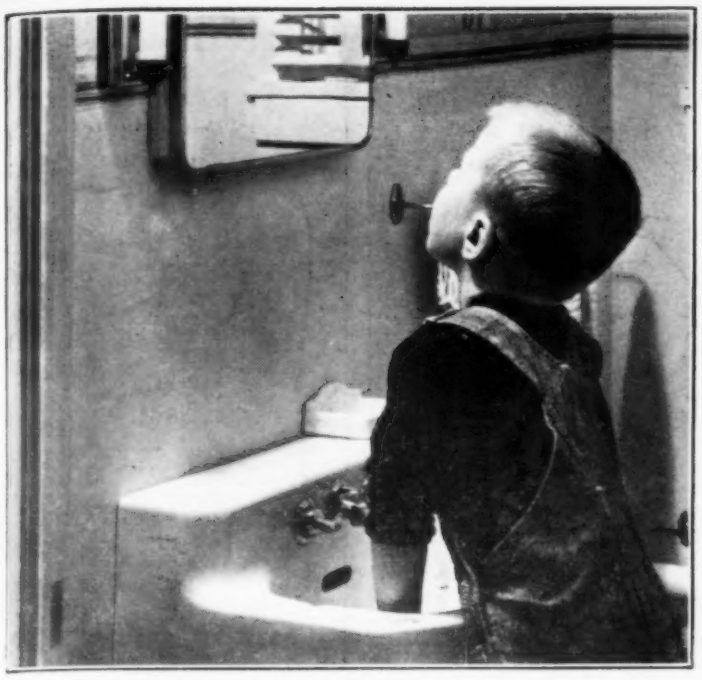
Bagless models let dirt and debris drop into a bottom container, or dust pan, which is easily emptied. A cloth filter fitted over the top serves the purpose of the cloth bag.

One model uses a paper filter besides the cloth one. It should be replaced at each emptying. Air is filtered a third time as it passes from the fan back into the room. (This also muffles the noise of the fan.)

Vacuum cleaners with a revolving brush do better on rugs. But the rug nozzle for one bagless cleaner is a pretty good substitute. It's equipped with a brush and a little trap-door.

The brush loosens the lint as you push one way. The trap-door opens as you draw back and sucks up the lint. Make sure that all joints in the wand are satisfactory and won't fall apart. Be sure attachments are well constructed.

For the more expensive items, see that reliable service is available. There are times when even the best of appliances will need repairs or servicing.



Danny washes up in the new washroom off his mother's remodeled kitchen. He's the son of Mr. and Mrs. Ray Rimathe, Story County, Iowa.

COOKERY CORNER

BAKED SQUASH WITH PINEAPPLE

Use one medium sized winter squash, brown sugar, salt, butter and four tablespons drained and crushed pineapple. Halve and remove seeds and stem end. Then peel and slice a quarter-inch thick. Arrange squash in a layer in the bottom of a well-buttered baking dish and add a slight sprinkling of brown sugar on top. Dot with bits of butter and season with salt and pepper. Add pineapple. Arrange another layer of squash. Bake in a 350-degree oven for one hour.—Mrs. Bud Crawford, Custer County, Nebraska.

MOTHER'S OH'S AND AH'S CHOCOLATE CAKE

3 egg yolks
1 cup sour cream
1½ cups sugar
2 ounces chocolate
¼ cup hot water
1 teaspoon vanilla
1¾ cup flour
¼ teaspoon salt
1 teaspoon soda

Beat yolks and cream together. Add sugar. Beat until thick. Dissolve chocolate in hot water and add to cream and eggs. Add flour; then the three egg whites, which have been whipped.—Mrs. W. C. Putbrese, Sac County, Iowa.

GREEN APPLE PIE IN CHEESE CRUST

3 cups green apples, sliced
2 cups sugar
1 teaspoon lemon juice
½ teaspoon nutmeg or cinnamon
3 tablespoons butter
2 cups flour
⅔ cup shortening
¼ cup ice water
1 teaspoon salt
½ cup grated cheese

Sift and measure flour and resift with salt. Add grated cheese. Cut fat into flour or rub it in with the fingers, working very quickly. Sprinkle iced water over mixture, a little at a time, tossing lightly with a fork. Do not overmix. Chill dough before using. Line pie-plate with crust. Sprinkle one-third of sugar and spice mixture over the pastry, spread with apples which have been pared, cored and sliced, and cover with remaining sugar, lemon and dots of butter. Cover with top crust. Bake in a 450-degree oven 10 minutes, reduce to 350 degrees and bake 30 minutes longer. — Mrs. G. G. Carleman, Douglas County, Nebraska.

GINGER CREAMS

¼ cup soft shortening
½ cup sugar
1 egg
½ cup molasses
2 cups sifted flour
½ teaspoon salt
1 teaspoon ginger
½ teaspoon each of nutmeg, cloves and cinnamon
½ cup hot water
1 teaspoon soda

Mix together thoroly the shortening, sugar, egg and molasses. Sift together flour, salt and spices, and stir into shortening-sugar mixture alternately with hot water in which the soda has been dissolved. Chill dough thoroly. Drop by teaspoonfuls onto a lightly greased baking sheet. Bake at 400 degrees. —Mrs. L. E., Iowa County, Iowa.

FROZEN LEMON PIE

1 cup graham cracker crumbs
3 eggs
1 cup sugar
2 tablespoons cold water
½ cup whipped cream
Juice and grated rind of one lemon

Beat egg yolks light, add cold water, one-half cup sugar and the juice and grated lemon rind. Cook until thick and clear, stirring constantly. Cool. Beat egg whites stiff, add scant half cup sugar gradually, then fold in the cooled filling. Butter large tray of ice-box and cover with one-half cup crumbs. Beat cream stiff and fold in the filling. Pour mixture over the crumbs. Sprinkle other half cup crumbs on top and freeze at least five hours. — Mrs. L. W., Iowa County, Iowa.

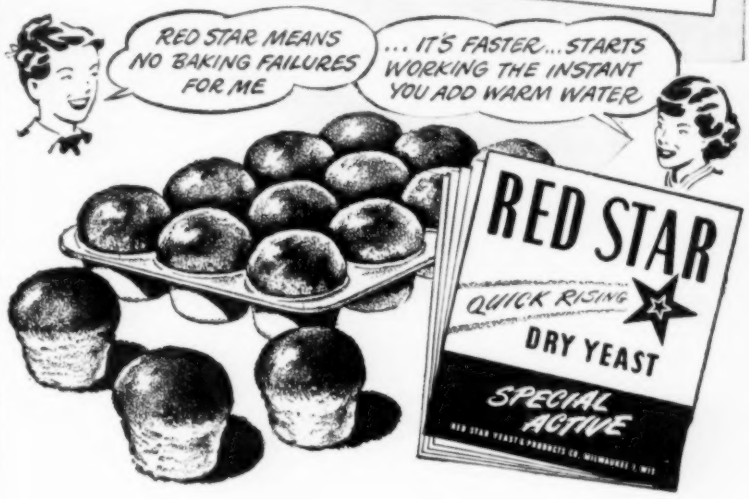
SAVE PRECIOUS KITCHEN TIME WITH RED STAR Special Active DRY YEAST

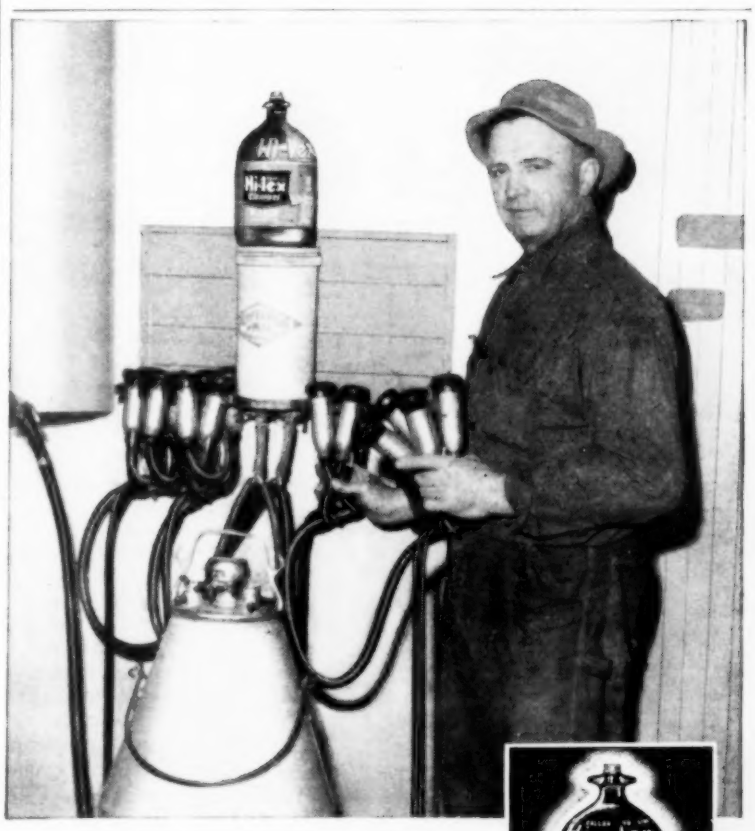
Red Star is the yeast for busy housewives—it's faster. It keeps without refrigeration. Buy a month's supply, and store it on the shelf with other baking ingredients.

30 MINUTE ROLLS

2 packages Red Star Special Active Dry Yeast
1¾ cups warm water (105° to 110° F.)
¼ cup sugar
1½ teaspoons salt
1 egg
3 cups sifted all purpose flour
2 tablespoons shortening, melted and cooled to lukewarm

Step 1: Dissolve yeast in warm water (105° to 110° F.) in large mixing bowl. **Step 2:** Add sugar, salt, and unbeaten egg. Add flour gradually. Beat well with electric mixer on low or medium speed, or by hand with large wooden spoon. Add shortening, beating until thoroughly mixed. **Step 3:** Spoon dough into well greased muffin pans, filling about one-third full. **Step 4:** Let rise in warm place (90° to 95° F.) until dough has risen level with top of muffin pans (about 25 to 30 minutes). **Step 5:** Bake in moderately hot oven (375° to 400° F.) 20 min. **Step 6:** Remove from pans and serve warm. Yields 18 to 24 rolls.

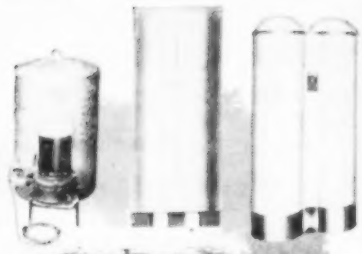




Hi-lex reduces bacteria count, boosts income and saves time
for Minnesota Dairyman

"I'm getting more money for my milk because Hi-lex has reduced the bacteria count," says Mr. L. A. Lhotka of Glencoe, Minnesota. "Hi-lex is easier and quicker to use—I just pour ½ cup of Hi-lex in 4 gallons of warm water and rinse my milking equipment in this solution. I leave the teat cups in it between milking."

BUY HI-LEX . . . BUY THE GALLON . . . BUY THE CASE



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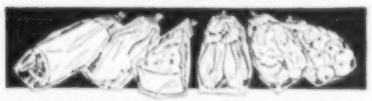

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"We never miss a State Fair" is boast of the Leslie Treshams, Woodbury county, Iowa. They're on the porch of their new home.

What Women Will See At Fair

You Won't Want To Miss The Many Features Of Special Interest To Farm Homemakers

YOU'LL find plenty of things of special interest to farm homemakers when you visit the Iowa State Fair, in Des Moines, August 26 thru September 2.

So you'd better allot at least a little time for yourself during your fair visit. Turn the youngsters over to your husband, or drop them off at the well-managed day nursery, and pay a visit to these features:

CULINARY SHOW: Entries in the fair's cooking and baking division will be on display in the east end of the Educational Building—under the grandstand.

Judging, of course, will be going on almost continuously during the first part of fair week. The judges have their work cut out for them in awarding more than $1,000 in prizes in 14 divisions, including those for breads and rolls, cakes, cookies, candy, spiced goods, jellies, jams, conserves, fruits, butters, preserves, canned vegetables and canned meats.

TEXTILE SHOW: Entries may be found in the Exposition Building. Many farm women will be among those competing for $1,100 in awards in these divisions: Applique work, bedspreads, crocheting, embroidery, knitting, needlework, weaving, quilts and rugs.

Of special interest will be a class for the work of women over 60 years of age.

RURAL FAMILY LIVING: County groups of Farm Bureau women will compete for $1,600 in awards in this division. Under the direction of the Iowa State College extension service, 18 counties have been selected to prepare exhibits and present daily demonstrations of new ideas in family living.

Counties and their exhibit subjects are: Boone, house plants and crafts; Union, library; Clinton, finishing and care of walls and woodwork; Audubon, extension service activities; Mahaska, color in the home; East Pottawattamie, cooking equipment; Cass, family entertainment; Louisa, home lighting; Humboldt; health; Appanoose, schools; Adams, child training; Tama, dressmaking; Marshall, new sewing methods; Fayette, clothes for pre-school children; Mills, home freezing; Hamilton, home grounds improvement; Washington, world relations; Ida, music.

HORTICULTURE: Fruits and vegetables — uncooked and uncanned — will compete for more than $5,000 in cash prizes. Entries will be on exhibit in the Agricultural Building.

FLORICULTURE: Besides competitive classes for flowers themselves, model flower ardens, flower arrangements and table decorations will be featured. You'll be especially interested in exhibits of mantel arrangements, specimen rooms, window gardens, and the class for "outdoor living-rooms." These will be found in the Agricultural Building.

WOMEN'S PROGRAMS: Special programs of interest to women will be presented each day in the Women and Children's Building. The first two days of the fair—Friday and Saturday, August 26 and 27—these programs will be of special interest to children.

Then, starting on Monday, there will be style shows, book reviews and a number of interesting talks on subjects such as modern architecture for farm homes, home decoration, etc.

These programs will run both mornings and afternoons thruout fair week.

There are a number of other features at the fair that many of you will want to see. Parents of 4-H Club youngsters will want to visit the boys' and girls' club exhibits and demonstrations. And you may want to sit in for a while on the All-Iowa Quiz Derby, where teams of children representing various Iowa schools will try to outdo one another in answering questions on current events.

Then, of course, there will be the Baby Health Contest, in which more than 700 entries are expected. Judging will be almost continuous in the Women and Children's Building.

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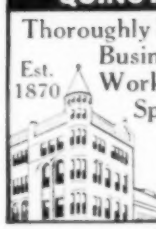

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Lines from ... Aunt Lib

On Giving Up Your Children

CHILDREN are grown and gone before you know it, seems like. Still, they are generally somewhere around for 16 or 18 years. While a baby calf is weaned and ready to go on his own at eight months.

Some youngsters get thrown out into the world too soon. Then others aren't weaned soon enough. I don't know which is worse. They say that the best mother is the one who can train her child quickest to get along without her.

Aunt Lib

That does not mean not to love you any more—but he should be taught to stand on his own feet and make decisions for himself. Some mothers take pride in keeping their kids tied to their apron-strings. And to their own shame, I'd say. That's mother love in reverse.

I've been thinking how our little girl grew. First, it seemed she took up all my waking hours, and some when I should have been asleep.

Later, Pa got a bigger interest in her. She'd look forward to her romp with him when he came in from chores. He'd have the fun, I'd tell him, but I generally got her when she needed changin' or her nose wiped. Later, she'd go outside with Pa whenever she could.

Then came her school days, and our part in her began to dwindle. Pa says his share in her began to slip when she started helpin' me with the dishes. We got sort of like pals workin' together.

Finally she went off to college. She missed us pretty bad at first, and wrote some lonesome-like letters. Then she got into the whirl of activities. She'd be home for vacation, but anxious to get back to school with her gang again.

Next, out in the cold world to find a job. By that time, tho, there was "that other man in her life," as she jokingly told Pa.

Finally, she got married. It was one of those perfect June days when everybody should be happy. Put her man's job was a long way from Iowa. It meant not seeing her for a year, anyway.

Even the dear girl's eyes were wet thru her smiles as she and her husband waved good-bye to us. Then Pa and me went in, and we cried a little on each other's shoulders.

It was harder, too, because she was our only girl. But we would not wish it otherwise. If we have passed on a little torch to her, she can carry the light into her new home.

It was lonesome after that. But it wasn't the sort of emptiness like we had when our boys went off to war. Then always lurked the thought of death. But marriage means fullness of life. With youngsters, we hope, to call us Grandma and Grandpa.

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Quilt Exhibition!

Of Prize Winners from State Fairs

• More prizes for the prize-winners when the top four Pieced and Applique quilts of the ten Central State Fairs compete for ribbon trophies and substantial cash awards at the 1949 Central States Quilt Exhibition in Cincinnati, October 4 to 8.

First four award winners for Pieced and Applique quilts in each of these State Fairs will be invited to **participate: Illinois,** Indiana, Iowa, Kansas, Kentucky, Michigan, Missouri, Ohio, Tennessee, and West Virginia.

The 1949 Central States Quilt Exhibition is sponsored by the makers of MOUNTAIN MIST the needle-easy, super-soft quilt filling. It's another event in the company's years of service to quilt makers and quilt lovers. Further details on request.

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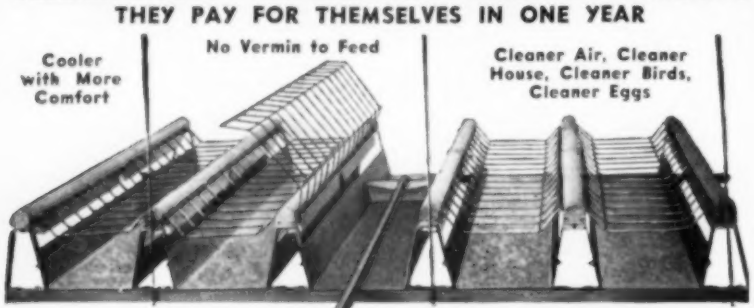

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The Farm Flock

IOWA STATE FAIR officials have made several big improvements in this year's State Fair poultry show. Greater attention will be paid to the kind of birds that make money, and less attention to those that just look fancy. The result is that the show should hold a lot more interest for practical poultry raisers.

▲ ▲ ▲

PIGEONS AND BANTAM classes still will carry more premium money than they probably deserve. But practical classes will get a better break than they have for many years.

▲ ▲ ▲

BIGGEST CHANGE is the addition of a new production poultry division, in which hens will be judged strictly on egg-laying characteristics. Good looks or pure blood won't count. Entries in this new division will compete for $936 in prizes. And two queens—from light and heavy breeds—will be crowned.

▲ ▲ ▲

ALSO ADDED is a $500 live market turkey division. And premiums in the live market poultry division have been jumped from $468 to $1,080. The dressed chicken division—which ties in with the Chicken of Tomorrow contest—will be continued.

▲ ▲ ▲

EGGS WILL GET more attention at the State Fair, too. Prizes in the market egg division have been boosted from $40 to $300. There will be classes for white, brown and mixed-color eggs.

▲ ▲ ▲

IN THE FANCY END of the show, you'll see breeding class entries of almost every kind of chicken, bantam, duck, goose and pigeon you can think of. Total poultry show premiums amount to $9,097.

▲ ▲ ▲

RANGE-TIME is a good time to have your flock vaccinated for fowl-pox, says Dr. J. O. Alberts, University of Illinois. Healthy birds can be vaccinated any time after six weeks of age and before maturity.

▲ ▲ ▲

BUT DON'T GIVE your birds fowl-pox shots if you haven't had pox on your place, and if there isn't any in your neighborhood. It will be cheaper to prevent it by sanitation and good management. Keep young and old flocks separated. And keep visitors out.

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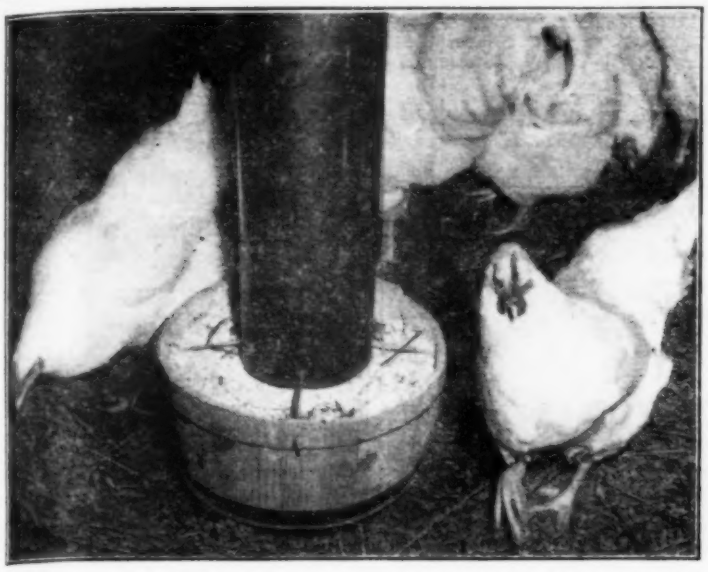

Stovepipe and half a keg make a labor-saving self-feeder in the Clyde Lewis hen house, Adams county, Iowa. The pipe holds several days' supply, feeds down into the keg as the hens eat.

Buy Chicken Feed Or Mix It?

Proper Mixing Of Proteins, Minerals And Vitamins May Be Job For The Experts

What do you feed your chickens? Here are some valuable poultry feed tips from W. R. Whitfield, Iowa State College extension poultryman.

SHALL I buy my mixed poultry feed in the bag, or would it be better to mix my own?

The an-wer to this question depends upon the circumstances. But if you're an average flock owner, there's little reason why you should mix your own mash or concentrate today.

There's a difference between now and several years ago, when mixtures were less complex. Then, some of the ingredients were not used in such small quantities as they are now. They make mixing difficult.

In general, flock owners should buy chick starters in the bag unless they have large quantities of skim-milk. The amount of each nutrient required is exact, and there's a risk of not getting them mixed properly.

Not being able to get the right ingredients is another thing that points to the wisdom of buying baby chick feed in the bag.

Flock owners who have developed large poultry projects are the exception in feed mixing. Large-scale brooder plant owners may be justified in putting in a mixer, buying in quantity and mixing their own feeds.

But even big operators have found that there are more and bigger problems than they had expected. Most of them now depend upon reliable feed-mixing companies for all of their supplies for growing birds.

It should be further pointed out that a good chick ration, up to the salable age of the cockerels (about 12 weeks) is rich in minerals, vitamins and protein feeds the farmer does not have in dependable supply. Too, the chicks can be fed most conveniently by grinding and mixing all their feeds together.

The small amount of farm-grown feeds contained in the chick ration doesn't justify all the detail work of mixing, balancing and studying the cheapest or best combinations for producing the chick mash.

The laying ration presents another problem, altho the principle is the same. Instead of the hens requiring a high-protein ration, as do chicks or turkey poults, they need a protein level of about 15 to 15½ per cent protein. Also, in contrast with the chicks, the hens can eat large quantities of whole grain.

Since farmers usually have their own grains, it is most practical to feed a high-protein concentrate (about 26 per cent). Together, they will give you about the 15 per cent protein ration your hens need.

So the farm flock owner needs only to buy a properly balanced ready-mix of protein, mineral and vitamins to use his grains economically.

Experience with flock owners who mix their own chick mash or concentrate feeds from reliable formulas leads to the opinion that, too often, they try to change them.

They make substitutions, leave out certain feeds that are not available, or continue to use formulas long after better ones have been discovered thru controlled experiments.

All this doesn't mean that flock owners should not know the secrets of nutrition in poultry feeding. On the contrary, they ought to be able to interpret the faults of malnutrition in abnormal birds.

They should take keener interest in knowing when to start grain feeding, or when to change to a concentrated growing feed from the baby chick mash.

But the poultryman is like the farmer who wisely has turned over the building of his machinery to skilled manufacturers. He can be compared to his wife, who has wisely given the task of making her husband's overalls to the quantity expert in clothing.

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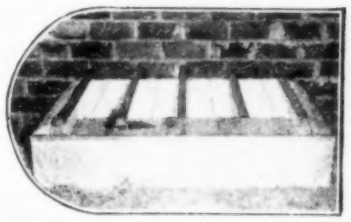

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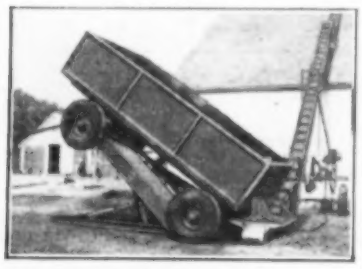
2 NEW DEVICES Speed Unloading with Portable Elevators

New Roof-Extension Elevator . . . The same portable elevator one man maneuvers around the farmyard to fill small bins, cribs, feeders, etc., can now be used for elevating grains and ear corn into extremely high storage spaces! It's all possible because of Koyker's newly perfected Roof-Extension-Elevator, which converts the Koyker portable into a strong and efficient stationary-type elevator. It is available in any length, is easily attached or detached and costs little. It rests on the roof of the high crib or bin, one end empties into the receiving hole and the other end attaches to top end of portable elevator, and is powered through it. Leave the Roof-Extension in place, or move it to another crib if you wish. But, by detaching, the Koyker is ready for use as a portable elevator in a few seconds. This is the simplest, quickest, cheapest way to lift grain or ear corn into high storage spaces . . . and do it with speed! Can be used on all old Koyker elevators and many others.



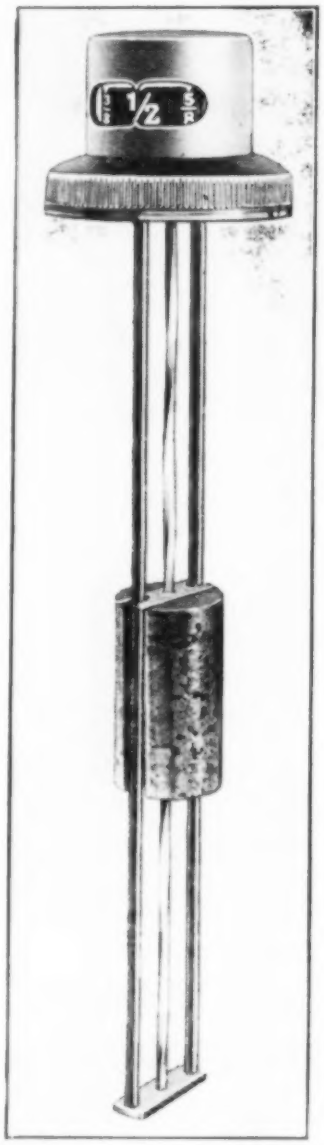
New Hydraulic Wagon Hoist . . . saves countless hours of back-breaking shoveling and scooping. The new Koyker Hydraulic Wagon Hoist speeds unloading operation of all kinds of grain and ear corn, and many other hard to handle items. Ruggedly and simply built it has a tremendous load capacity and is easily moved from one place to another. When used with the Koyker Portable Elevator it is a real time and labor saver of remarkable performance. One man operates both the elevator and wagon hoist. Hydraulic pump can be attached to run off engine of elevator or it can be powered separately. Illustration above shows Wagon Hoist and Portable Elevator in working position. Hopper on elevator can be tilted up to allow wagon or truck to be run into position over hoist. No lining up necessary. Operator opens valve on pump and starts elevator. Hoist pushes wagon into dump position, tail gate is opened and elevator whisks grain or ear corn to top of crib or bin. Full load can be unloaded in minutes. Send today for full information on this money saving equipment or see your Koyker dealer. Features all-steel construction and highest quality workmanship throughout.

If You Plan To Be At The STATE FAIR

you can see this amazing equipment there. But don't take a chance, be sure you have full details at home. Send name, address to:

Kooiker Manufacturing Co.
Dept. WFS2 Hull, Iowa

What's New?



Fuel Gauge for tractors is installed by replacing regular fuel tank cap with new gauge. Revolving dial indicates supply of gas in tank. Operates by float on swivel pin. Comes in three models and is claimed to fit most makes of tractors. It is made by the Silbaugh Manufacturing Co.

Hitch Pin saves the trouble of climbing on and off the tractor. The pin can easily be reached by the operator while he is sitting in the tractor seat; provides safety and convenience. The Chief Shawano hitch pin is made by the Shawano Engineering Company and is distributed by the R. N. Jacobi Company.

Churn has electric motor at top of unit. The Rotordasher of cylinder type is high speed. The new features which have been introduced in this churn make it efficient and easy to clean and take care of. It has a churning capacity of two quarts of milk. Manufactured by Dazey Corporation.

Something New in grain drying is provided by an extra floor in this bin. The extra floor comes in panels and is made of steel. Holes in the panels let air thru but hold the grain up off the regular bin floor. The perforated floor can be placed in any ordinary grain bin, as shown in the picture above. Any portable grain drier can be used to force air between the two floors and up thru the grain. The Steelox drying floor is made by the Armco Drainage and Metal Products Company, Inc.

PLOW NOW

AND KILL TWO CROPS OF WEEDS THIS FALL

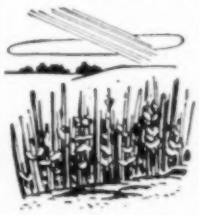
PLOW IN AUGUST

. . . turn under one crop of weeds before they go to seed.

DISK, HARROW OR DRAG

to make a rough seedbed for *new* weeds.

WEEDS SPROUT



and grow in August and September while the soil is warm and moist.

WEEDS FREEZE

in October's killing frosts, before new seeds can be formed.

YOU'LL COLLECT

extra bushels next year because you kill two crops of weeds this fall.

GET THIS NEW *FREE BOOK*

MAIL COUPON BELOW!

FLAX DEVELOPMENT COMMITTEE

The Flax Institute of United States

MAIL THIS COUPON

FLAX DEVELOPMENT COMMITTEE 2
710 Roanoke Building, Minneapolis 2, Minn.

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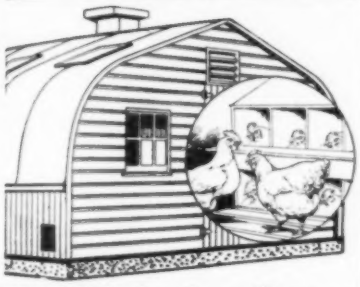
Start now - Feed Your Hens VICTOR EGG GRANULES (Also Mash and Pellets)

Contain controlled amounts of essential minerals, proteins, carbohydrates and original vitamin sources — all in one proved and economical egg-making feed.

There is a complete line of VICTOR FEEDS

CRETE MILLS • CRETE, NEBR.



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Every Desirable Feature At Very Reasonable Price

Insulation: Heavy fiber insulating roof sheathing.

Ventilation: Louver and flue, with electric forced air system available at your option.

Easy Erection: Convenient panels, gable ends, floor sections—easily and quickly assembled without special tools or skilled labor. Sizes for any farm flock; 12-foot sections, either 14 or 18 feet wide.

Well lighted with roof and gable end windows. Convenient, with wall-to-wall head space. Strong, durable, good looking—laminated arch rafters. Exterior primed with white paint. Provide health and comfort for your layers; boost egg production.

GRAIN STORAGE *PLUS*

The Walnut Convertible Building, 12x20 feet, stores up to 1500 bushels of grain. And when the storage emergency ends, it can be easily converted to garage, machine shop, poultry house, wash house, etc. A wise investment that you can use full time for many years. Reasonable price. See your dealer or write direct.

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FOR RENT

Fully stocked and equipped 320 acre dairy farm on share basis to capable and reliable party.

W. A. DRAKE, BLAIRSTOWN, IOWA

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The Spencer Farming Exhibit at the SPENCER CHEMICAL COMPANY display—Iowa State Fair

WOODMANSE

EST. 1861

PUMPS PUMP JACKS WATER SYSTEMS

Conserve Your Soil

One man and any farm tractor builds high terraces, dams, fills, gullies, etc., easily, swiftly. Loads, unloads, spreads without stopping. Bulldozes backward. ½-yd., ¾-yd., 1½-yd. sizes, 2 models. Prompt delivery from your dealer or direct from factory. Send for Free Literature and Low Prices.

K-S ROTARY SCRAPER

CENTRAL MFG. CO., 4919 Poppleton Ave., Omaha, Nebr.

BUY BONDS! — SAVE MONEY!

Farm News Briefs

IOWA'S SHARE of the 1950 wheat acreage allotment is 13,492,502 acres. That compares with a 1949 planted acreage of 15,805,000.

▲ ▲ ▲

DAVE DOHRMANN, first full-time secretary of the Iowa State Soil Conservation Committee, has resigned to enter private business. A successor will be named this month.

▲ ▲ ▲

BLUE GRASS seed production this year will total half again as much as the 1943-47 average, and 43 per cent larger than in 1948, says the Iowa Crop and Livestock Reporting Service. Yields have been higher in Iowa, Kansas, Kentucky, Nebraska, South Dakota, Wisconsin; lower in Minnesota, Missouri, North Dakota.

▲ ▲ ▲

FIRST REPORTS on the results of Iowa's Opportunity Savings Bond drive show that the state easily topped its $50,000,000 quota. High counties were Taylor, Story, Sioux, Sac and Plymouth, with around 150 per cent of quota, compared with 107 per cent for the state as a whole.

▲ ▲ ▲

G. A. ROSENFELD, extension director in Buena Vista county, Iowa, for the last five years, has resigned to become northwest Iowa fieldman for Dairy Genetics, Des Moines artificial breeding organization.

▲ ▲ ▲

FLOYD ARNOLD, extension dairyman at Iowa State College, has been named a director of the American Dairy Science Association. F. E. Nelson, research dairy industryman at ISC, continues as editor of the association's journal.

▲ ▲ ▲

FORMER IOWAN Harry L. Bryson has been named field service director for the American Farm Bureau. Bryson once served as extension director in Jasper county, Iowa, and as organization director for the Iowa Farm Bureau. Recently, he has been executive secretary of the California Farm Bureau.

▲ ▲ ▲

A CEDAR RAPIDS branch of the Iowa State College soil testing laboratory has been okayed by the state executive council. The new lab will be in charge of Darrell Russell, district extension director in soil conservation, and will begin operations about September 1.

▲ ▲ ▲

PLANS ARE BEING worked out to establish a centrally located camp for Iowa 4-H and Rural Youth groups. An Iowa 4-H Club Foundation has been set up to accept gifts, buy a camp site, put up buildings and operate the camp.

▲ ▲ ▲

COMING EVENTS: August 12-21, Illinois State Fair, Springfield; August 14-21, All-Iowa Fair, Cedar Rapids; August 18-19, Pilot Rock Plowing Matches, Cherokee; August 19, Jones County Fair and Fat Steer Contest, Monticello; August 21-28, Missouri State Fair, Sedalia; August 26-September 2, Iowa State Fair, Des Moines; August 27-September 5, Minnesota State Fair, St. Paul.

VON RUDEN TRACTOR CHAINSAW

Speedy • Easy • LOW COST

Makes quick work of cutting logs. No extra attachment needed. No revolving blades to cause injury.

Ideal for notching, felling trees. Cuts at ground level. . . FAST!

Patented Safety Clutch prevents injury to saw if pinched or an obstruction is hit. Heavy duty facings, easily adjusted.

OPERATES FROM POWER TAKE-OFF OF *ALL* TRACTORS AND JEEPS

Ruggedly built to give you many years of service *with the power you have!* Heavy-duty construction but light in weight . . . 106 pounds. Swinging frame is quickly mounted with two bolts. Gets into places where ordinary saws fail. Nationally famous ball bearings, saw chain and universal joints assure dependability, long-life, minimum maintenance.

SAWS 30" OAK LOG *IN 30 SECONDS*

Fastest sawing, easiest to attach or detach. Walks thru toughest trees and logs like a knife thru butter. Tractor carries weight of saw, eliminates chain thrust. Nothing extra to buy. . . no extra attachments needed. The Von Ruden Tractor Chainsaw is a complete unit, ready to operate.

FREE FOLDER

New, illustrated folder gives complete information, specifications and valuable tips on sawing. WRITE TODAY!

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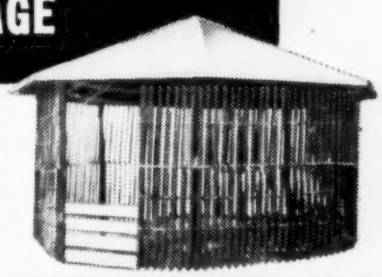
SAFE LOW COST APPROVED STORAGE



Reseal present corn crop with a rugged Permco Crib Top for less than government loan. Don't risk expensive corn loss storing under temporary paper or canvas covers. Permco gives permanent, low cost corn protection. 18 feet in diameter, aluminum painted, pressed wood top easily bolts in 8 waterproof joints. 18 inch top opening permits bolting together after crib is filled. Top opening covers with metal cap. Permco top fits snugly and is strong enough for a man to stand on. Protect your corn from shrinkage, rot and pests in any weather with a Permco Crib Top. Shipping costs are low.

Write Dept. W. for complete information

PRACTICAL FARM USES for PERMCO CRIB TOPS

- Makes ideal poultry or hog shade by merely setting 8 posts with top plates.
- Set a PERMCO cover on a ring of baled straw for a warm hog shed.
- Any number of 8 sides can be covered to make stock, machine shed or other shelters.
- Perfect silo covers.

PERMCO MFG. CO. PERU, NEBRASKA

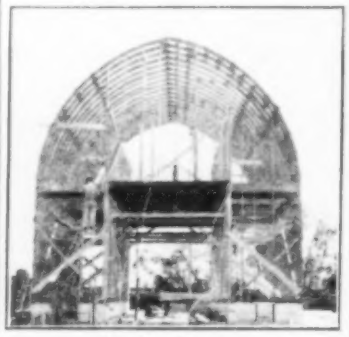
A COMPLETE SELF-PROPELLED SPRAY OPERATION WITH

HAGIES HI-CLEARANCE SPRAY CARRIER

WRITE There is a FREE descriptive Hagie Hi-Clearance Folder for you! Get the facts—High or low the Hagie Self Propelled Hi-Clearance Spray Carrier. Department WF.

HAGIE MANUFACTURING CO., CLARION, IOWA

"Super" Combination Corn Crib & Granary



Two 8 ft. Cribs, 13 ft. Driveway. Grain above.

A PERMANENT grain and ear corn storage unit is a very important part of the many production buildings comprising a farmer's factory. SUPER LAMINATED RAFTERS do the job.

Write for complete information

SUPER-STRUCTURES, INC. Albert Lea, Minnesota

Before You Buy A Picker . . .

BE SURE TO See THE GREAT AMERICAN CORN HARVESTER

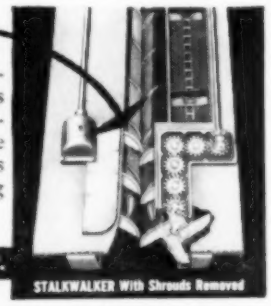
PICKS 12 OR MORE ACRES PER DAY

With The Exclusive "STALK-WALKER"

- No Gathering Chains to Clog or Break
- Complete Lubrication in 5 Minutes
- Cleaner Husking—Less Shelling

At last! A practical corn harvester that keeps pace with today's big hybrid crops and improved power farming. A "single" that picks as much as a "double". No cumbersome gathering chains to clog and break—or entangle clothes, hands and arms. Great American has dozens of exclusive labor and money-saving features that are years ahead.

Write for descriptive literature and name of nearby dealer.



STALKWALKER With Shrouds Removed

GREAT AMERICAN FARM IMPLEMENT CORP.

DEPT. 5A. 39 S. La Salle Street, Chicago 3, Illinois

ANTHONY FLAT RACK BED

★ ALL STEEL
★ 7 x 14 FT.
★ DESIGNED FOR HIGH SPEED OPERATION

For farmers who want to build their own wagon box top or hay rack. Heavy-gauge steel throughout, electrically welded. Floor is non-skid steel plate—no boards to shrink or open up. Costs little more than a homemade wooden flat rack and, with a minimum of care, will last a lifetime. Hay Rack Pockets available.

CORNER BRACKETS

Rack furnished without 4 corner brackets and 6 brace bolts pictured unless ordered. Side planks can be bolted in place or left unbolted for quick removal. Hay rack ladder pockets (4) also available.

LOW SIDE BOX

Left: Anthony all steel 7 x 14 ft. large size combination flat rack and low side wagon. Many special features. Fits any gear. Write for prices, pictures.

ANTHONY CO.
Farm Equipment Div.
Dept. 9420 Streator, Ill.

HERE'S HOW CURIOSITY CAN PAY OFF!

SEE THESE NEW FARM WONDERS IN OUR LOT AT THE FAIR
A Show in Itself! Many Farm Items Not Yet at Your Dealers!

1. HYDRAULIC LIFT FOR IHC 2M CORN PICKER
2. POWER TAKE-OFF DRIVE FOR ANY HAMMERMILL
3. SELF-ALIGNING DISKOLTER FOR CLEAN PLOWING
4. REVOLUTIONARY NEW ENDERS STALK CUTTER
5. NEW, STURDY FREEMAN WAGON
6. ENDERS SPRAYER IN OPERATION

ALSO MANY OTHERS!

VISIT LOT C 1 BLOCK EAST OF LIVESTOCK PAVILION, AT THE IOWA STATE FAIR

MID-STATES EQUIPMENT CO. LAKE VIEW, IOWA
DISTRIBUTORS

SAFETY FIRST!! Do your buying from firms advertising in Wallaces' Farmer and Iowa Homestead. If you do not find in Wallaces' Farmer and Iowa Homestead the articles you want to buy, just let us know what you want and we will be glad to give you names of reliable firms.

Campers at last year's Iowa State Fair get ready for another big day. This is Laurel Michaels' family, Des Moines county. From left are Daughters Mary, Lois, Marilyn and Laurel, with Mrs. Michaels at the camp stove and the boss himself at the wash basin.

You Can Camp Out At The Fair

Tents And Cots Available For Renting. But You Should Arrange For Them In Advance

WITH tents available at the Iowa State Fair camp site, more folks than ever are expected to camp out while visiting this year's fair.

The free 125-acre camp grounds will be open to fair visitors from August 24 thru September 2, Fair Secretary L. B. Cunningham says.

The camp site is equipped with city water service, electric lights, shower baths, modern sanitary facilities, post office, fire department and all-weather roads.

There will be a special section for trailers. And another section will be set aside where members of the Farm Bureau may come together by county groups.

If you want to rent a tent to camp out at the fair, better make your reservation in advance. Tents and cots may be reserved by writing to the concessionaire—Burch Canvas Company, 207½ Court Avenue, Des Moines, Iowa.

Three tent sizes are available: A 7x9 rents for $1.75 per night or $7 for fair week; a 10x12 for $2.25 a night or $8 for the week, and a 12x14 for $2.50 per night or $8.50 per week.

There will be a convenient equipment headquarters at the camp grounds. There you'll pick up your reserved equipment. Reserved tents will be held until 10 a. m. on the day for which they were reserved.

New Farm Features At State Fair

You'll probably want to put down on your State Fair sightseeing schedule two new farm features: The "What's New In Farming?" exhibits and the farm gadget contest.

Iowa State College is setting up a series of booths in the Agricultural Building to show new developments and trends in farming. Here's what the exhibits will cover:

Grain storage, corn borer control, weed control, use of good seed, farm safety, small fruit production, landscaping, value of bees in pollination.

The Agricultural Building also will house other farm features. Victor Felter, superintendent of this department, reports the show will be the largest held in many years.

In the gadget contest, cash prizes will go to farmers who have invented the best labor-saving or other gadgets.

A section for small gadgets will be housed in the Agricultural Building. Implements and heavier equipment will be displayed just east of the Livestock Pavilion.

Big Sheep Show Expected

More than $5,000 in prizes will go to winning entries in the 1949 Iowa State Fair sheep show.

The show features classes in seven breeds and the market lamb contest.

Highlight this year will be the National Shropshire Show, with entries expected from many different states. A total of $2,754 in prize money will be offered in 15 Shrop classes.

Hampshires will compete for $1,011 in prizes, and Corriedales for $408. Premiums of $315 each are listed for Oxfords, Cheviots and Southdowns. Suffolks and Columbians complete the list of breeds in the show.

Market lambs will be shown in classes for individuals and pens of five, with competition broken down into four districts of the state.

HAY and CORN SILOS

for information write

Muscatine Rib-Stone Silo Co.

MUSCATINE, IOWA

State Size Interested In

Unload in 2 Minutes!

with LITTLE GIANT DUMP BODY HOIST

Low Cost - Easy to Install

Takes the *heavy work* out of unloading — gets the job done *fast!* Any farmer, trucker, etc. can afford one. Fits all trucks — all beds. Simple to attach — you can do it yourself. Does not change the chassis in any way. No hydraulic cylinder to adjust and service — LITTLE GIANT works equally well in hot or cold weather. Easy-crank operation. *Only $70 and up.* More LITTLE GIANTS in use than any other. *Absolutely guaranteed.* Write for details and prices.

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1558 N. Adams St., Peoria, Ill.

NEED TOOLS

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NAILS

NUTS

BOLTS

SCREWS

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A Supply on Hand Will Save a Lot of Time For You When You're In a Big Hurry Later On.

See Your Local Hardware Merchant

He Is In Business to Help You!

Many of the products he sells will be on display at the

IOWA STATE FAIR

***

WALLACES' FARMER and IOWA HOMESTEAD

Des Moines, Iowa

Paint On Corn Kill Stock?

To the Editor: I plan to paint my corn crib with a spray outfit. Is there any danger of poisoning livestock when I feed the corn that has some paint on it?—R. D., Mahaska County, Iowa.

There is a danger. Just how great the danger is depends on several factors—how fast you feed the corn, how much paint you put on, how the crib boards are spaced, what livestock gets the sprayed corn, etc.

Here are the amounts of sugar of lead (lead acetate) which are fatal to livestock: Cattle—60 to 100 grams, or 1¾ to 3½ ounces; horses—500 to 700 grams, or 17 to 25 ounces; sheep—20 to 25 grams, or ¾ to 1 ounce; swine—10 to 25 grams, or ⅓ to 1 ounce.

Some hogs can withstand three times as much of the poison as can other hogs. So you might run into trouble if you are not careful.

But, if you feed the corn carefully, if you don't let your stock get too much of the sprayed corn at one time, or if you grind the corn so it's well mixed, the odds are that you won't kill livestock with the corn. But your best guide is the figures above.

How Mix Feed When Worming Pigs?

To the Editor: How much sodium fluoride should you use when worming pigs? What is the best way to feed it?—A. C., Linn County, Iowa.

Here is what Dr. H. U. Garrett, state veterinarian for Iowa, says regarding the use of sodium fluoride for worming pigs:

"Pigs should be divided into groups not to exceed 20 or 30 head, about equal size, depending upon feeding space available, to insure fair distribution of the medicated feed. Do not fast the animals before the treatment. But slightly underfeed them for 24 hours previously.

"The treatment consists of feeding for one day a mixture of one part by weight of technical grade sodium fluoride to 99 parts of dry ground feed. On the day of treatment, the medicated feed is given in the morning, in about the quantity the animals will eat in one day. Any feed left may be mixed with the next day's feed. No cathartic is necessary following the medication."

You should remember sodium fluoride is a poison. Keep it away from children and pets.

Remove Straw From Legume Seedings

Removing straw and stubble right after small grain is combined may benefit new legume seedings, says Ralph Krenzin, agronomist at Iowa State College.

Sometimes heavy amounts of straw encourage diseases which may destroy the seeding. Legume seedings will benefit from as much as one ton of organic matter on top of the ground. But heavier amounts of straw and stubble hurt the seedings.

Record Corn Yield!

made by Emery Eigsti, Wayland, Iowa

TEST applauds Emery Eigsti for his record yield of 228 bushels per acre. Mr. Eigsti's bumper crop was on a two acre field using Funk Seed Company's G-99. Rows were drilled 20 inches apart.

Record Wear Yield!

TEST

OVERALLS and WORK CLOTHES

long wear "built in"

. . . because TEST overalls are made of heavy duty 8-ounce denim . . . reinforced where you wear 'em hardest. Front and hip pockets are double lined and double stitched. Scientifically graduated sizes mean real work comfort, too. Sanforized* so they will always stay the size you bought them.

TEST MATCHED SETS

. . . set records for long wear, good looks combined with low prices.

*Maximum shrinkage under 1%

TEST by Rice-Stix MANUFACTURERS • ST. LOUIS

SELF UNLOADING UNIT To Fit All Standard Wagon Boxes

Every Farmer Should Have the "LABOR SAVER" Self-Loading Unit

WHICH FITS ALL STANDARD WAGON BOXES

Price $162.50

Saves hours of hard hand work in putting up silage, hay or bedding, unloading corn and other grains and any farm hauling job. Easily installed on any wagon and hay rack and on holders, set box on unit, raise front endgate, put in chain and place unit in ready for operation.

THE "LABOR SAVER" UNIT IS:

- INDEPENDENT OF BOX
- FITS ANY WAGON
- EASY TO INSTALL
- UNLOADS WITH POWER TAKEOFF

DIMENSIONS: • Width of Apron 33 inches. • Maximum Length of Box 10 ft. 7 inches. • Neutral Lever Within Easy Reach of Operator.

Write To The BALZER MANUFACTURING CO.

MOUNTAIN LAKE, MINNESOTA

COME AND SEE US!

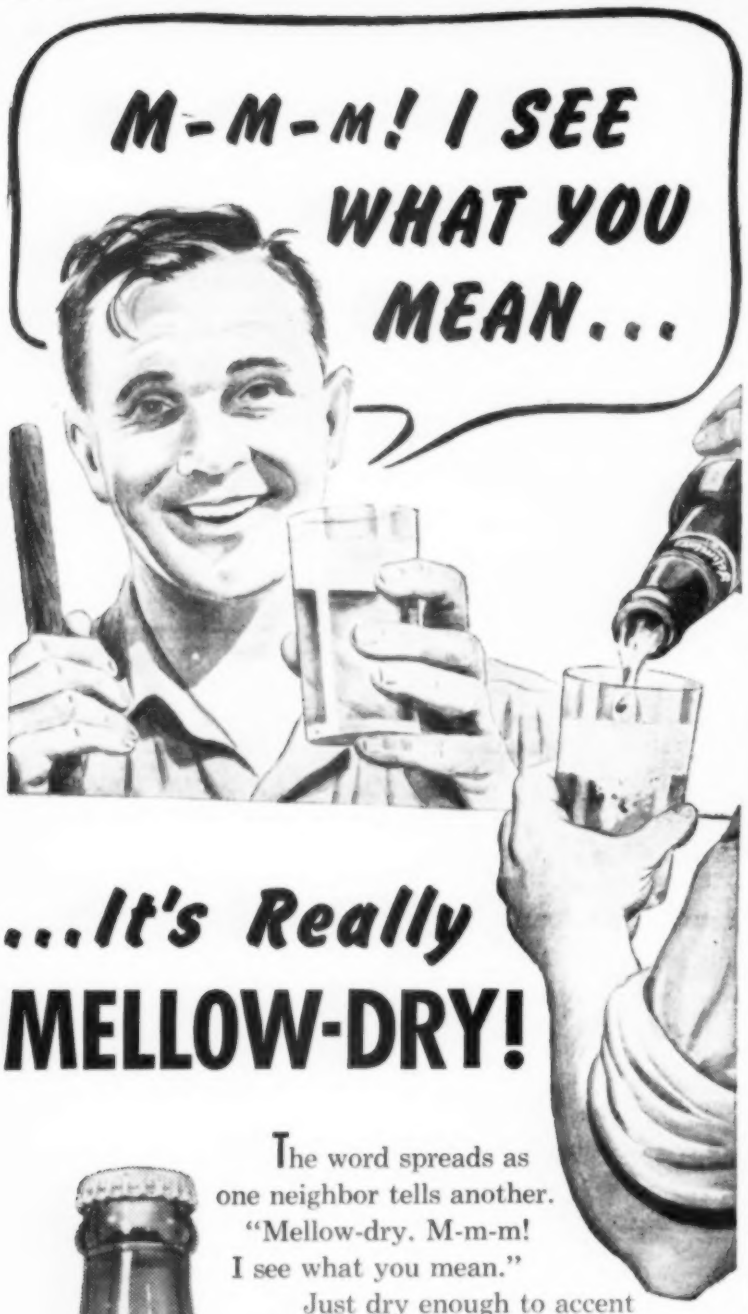
at the "Fair"

Plenty of Ice Water—Plenty of Chairs

See Our Interesting Display

Wallaces' Farmer and Iowa Homestead

East End Varied Industries Building



...It's Really
MELLOW-DRY!

The word spreads as one neighbor tells another. "Mellow-dry. M-m-m! I see what you mean."

Just dry enough to accent the rich mellow flavor of this finer City Club beer.

Whether you're relaxing at noon or after chores, or just plain trying to beat the heat, City Club is tops for real enjoyment.

Buy it by the case in the new gold foil label, or if you prefer, in flat top cans.

THAT'S
CITY CLUB
BREWED MELLOW-DRY
by Schmidt's

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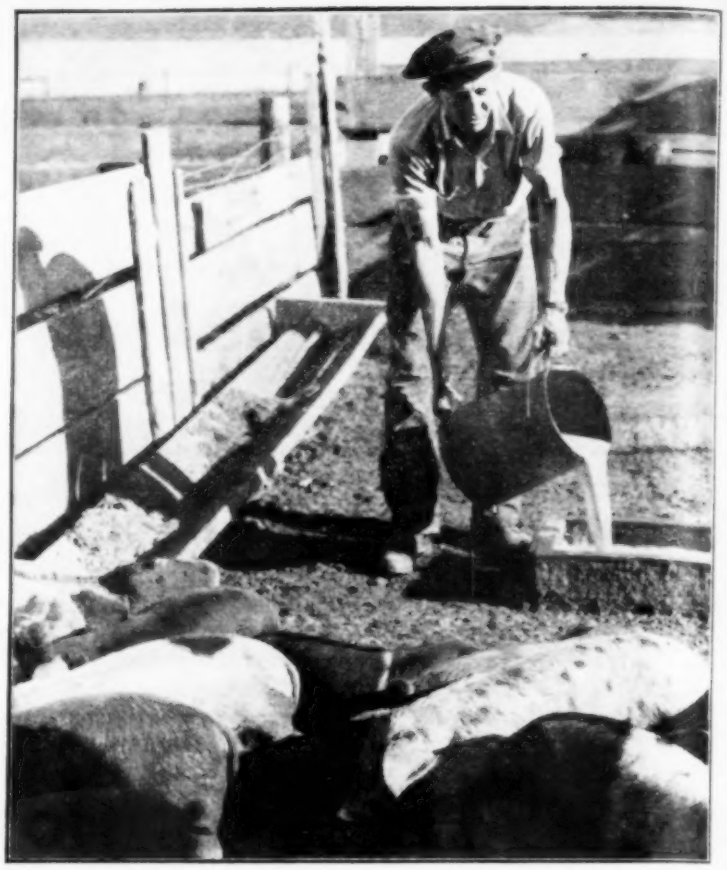

Hogs At $13 in May of 1950 is what Edward Geerdes, of Butler county, Iowa, expects. More than half of the farmers of Iowa are guessing a price in May of next year of $14 or less per cwt.

What Will Your Fall Pigs Bring?

Iowa Farmers Expect Hogs To Bring A Price Around $14-$18 In May Of 1950

WHAT do you think hogs will bring per hundred next May? That's a tough question.

Yet every farmer who has decided to raise or not to raise fall pigs in 1949 has been forced to guess what those pigs would bring on the market next spring.

So farmers in the Wallace-Homestead Poll answered the question like this:

Under $12	13 pct.
$14	44 pct.
$16	22 pct.
$18	12 pct.
$20	8 pct.
$22 and up	1 pct.

In guessing at next May's prices, farmers don't have much help from government rulings. Support levels are up in the air as congress fights over the farm bill.

If hogs were to be supported at 90 per cent of present parity, the price at Iowa points next May would be around $15.50. But supports may not be at 90 per cent, and parity may have changed by that time.

A big spring pig crop will provide plenty of pork thru the winter. And the fall pigs may hit a market already oversupplied.

That's apparently why many farmers expect low hog prices next spring.

Renters are a little more hopeful than owners about prices next May, but the difference is small.

One man in Cherokee county, Iowa, said: "The prices of cattle and hogs next May will turn on how we get along with Russia."

War, or a war scare, might send all prices up. That's his idea.

A most optimistic young farmer in Johnson county, Iowa, said: "I figure hogs will stay about the price they are now."

In previous surveys, farmers have usually been conservative in similar predictions. For several years, their predictions have been a little under the actual price when the hogs went to market some months later.

Maybe this time will be different. We'll know next May.

How Much Oats For Feeder Cattle?

To the Editor: I have 51 head of good feeder cattle. Am long on oats and a bit short on corn. Could I feed part oats?—J. M., Dubuque County, Iowa.

Experiments have shown that when ground oats are fed as one-half the grain ration to fattening cattle, they are worth only about 85 per cent as much as corn. They come nearer to corn in feeding value when they make up only one-third of the grain mixture.

Many cattle feeders figure it is safer to keep oats down to one-fourth of the ration by weight.

Except for calves up to about a year of age, it pays to grind oats for beef cattle, even when they are followed by pigs. Medium-fine grinding, in Indiana tests, was preferable to very fine grinding.

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Farm Prices On Way Up?

What are your chances for making money the rest of this year? Iowa State College Economist Francis Kutish takes a look at the prospects:

DEMAND: There is no way to tell for sure how far—or how long—the present drop in business will go. But it is likely that the readjustment will go farther before times get better.

Most people recognize that the weak spots which deepened and widened past business declines are not present this time. So we would not expect the readjustment to go as far as after World War I or the great depression of 1932. But the upturn in business is not likely to come until some time in 1950. This means that there will be a weaker demand for farm products next winter.

CATTLE: A falling price period favors waiting to buy feeder cattle as long as possible — and it favors selling grass cattle as soon as possible. Of course, feeders will want to modify their buying plans depending on how cattle runs progress. But this is not a year to be in too big a hurry to buy.

HOGS: The fall seasonal price drop for hogs is coming earlier than usual this year. The government will support hog prices at $18.50 at Chicago during most of September — supports drop to $18.25 the last five days of the month. Hogs are likely to be selling at or near support prices at that time.

The new price support, which will start on October 1, will be based on 90 per cent of parity as of September 15. That will be lower. So we may get a big rush of hogs the last of September as farmers hurry to beat the drop in price supports.

DAIRY: Milk flow will be falling during the rest of the year. But this will be offset at least in part by a further drop in consumer incomes.

POULTRY: Egg prices will hold up better than chicken prices this fall. The number of eggs in cold storage is away down. If present consumer demand would hold, egg prices would be about as high as last fall. But we are likely to get some further drop in demand—so egg prices probably won't average quite as high as a year ago. The big drop in egg prices will come next winter.

Present chicken-feed price relationships indicate it will not pay to keep young chickens after they weigh five pounds. And you may be better off to sell at three or four pounds—even tho the five-pound price is slightly higher. The question may not be how much can we make per bird—but how little can we lose?

FEED-STUFFS: Present signs point to lower prices for feedstuffs this fall. New-crop cottonseed meal for October delivery has been quoted at about $10 per ton under meal for spot delivery. Government buying of bran for grasshopper bait has stiffened the bran market.

HAY: This year's hay crop looks good. A near-record production of alfalfa is in sight. Demand for baled alfalfa at terminal markets has been slow.

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for Better Service

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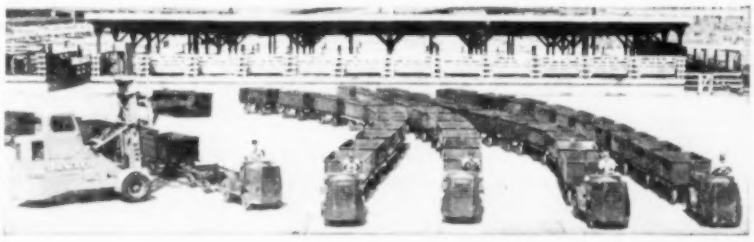
They were specially designed for the particular needs of the Chicago market after thorough investigation and experimentation. Each has a capacity of 3 cubic yards. The body is removable from the pneumatic tire chassis. Dumping is accomplished through the use of a lift-truck—shown in left foreground of picture.

The lift truck removes the bodies from the trailer, elevates them over the center of a railroad car where they are dumped. This operation takes 80 seconds. As many as 10 loaded trailers are hauled by one tractor.

In the background is the new 200 x 125 ft. covered truck unloading dock for cattle—the largest and finest at any market in the country. Equipped with light-weight aluminum gates and non-slip concrete flooring, the dock has an unloading capacity of 60 trucks an hour.



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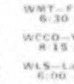
LISTEN TO CARBOLA FARM NEWS AND MARKETS



WMT—Farm Forum 6:30 A.M. CST—Mon., Wed., Fri.
WCCO—Your Farm Neighbor 8:15 A.M. CST—Sunday
WLS—Larry McDonald 6:00 A.M. CDT—Thursday
WNAX—Good Morning Neighbor 6:15 A.M. CST—Tues., Thur., Sat.

PIN-WORMS
NOW CAN BE
BEATEN!

A new, scientific treatment now offers *real* relief to the millions who suffer from the maddening rectal itch and other miseries caused by Pin-Worms. And experts report that at least *one out of every three* persons is infected with these ugly pests. Whole families may have Pin-Worms and never even know it.

But now you can and *should* do something about this common condition. **Jayne's P-W Vermifuge** contains a special, medically-approved ingredient that attacks Pin-Worms in the intestine and removes them from the body.

Play it safe! At the first sign of Pin-Worms, ask your druggist for **P-W**, the small, easy-to-take tablets perfected by the famous Jayne Co., specialists in worm remedies for over 100 years. Destroy those Pin-Worms . . . relieve that itch!

Just Remember: P-W ® for Pin-Worms!

BACKACHE, LEG PAINS MAY BE DANGER SIGN
Of Tired Kidneys

When disorder of kidney function permits poisonous matter to remain in your blood, it may cause nagging backache, rheumatic pains, leg pains, loss of pep and energy, getting up nights, swelling, puffiness under the eyes, headaches and dizziness. Frequent or scanty passages with smarting and burning sometimes shows there is something wrong with your kidneys or bladder.

Don't wait! Ask your druggist for Doan's Pills, a stimulant diuretic, used successfully by millions for over 50 years. Doan's give happy relief and will help the 15 miles of kidney tubes flush out poisonous waste from your blood. Get Doan's Pills.

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COMPLETE WITH CHAIN. Brass tag for HORNS and neck. Write for folder.
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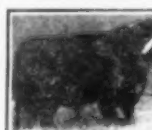

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Choice red Shorthorn bulls 16 to 18 months old by **WILL-A-DELL GOLD PLATE**, a son of Gold Nugget, and **ICENI COMMODORE** (Imp.) by Calrossie Randolph. Reasonable.
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KILLEARN MONARCH 29th, herd sire. Herd won **1st** at **Denver** and **Fort Worth**. Choice young bulls now offered. Farms at
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has an outstanding crop of calves on the farm from our good cow herd. Bulls of serviceable age. See us for quality Shorthorns.
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producing meritorious Shorthorns. Stock for sale.

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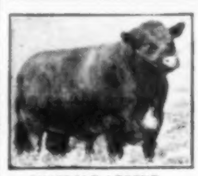

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Polled Shorthorns
Choice bulls by **MISTY VALE COMMANDER** top bull 1943 Ohio State sale and **STARDALE LEGEND** top bull 1947 Boyle sale. Also females mated to **Stardale Legend.** Priced right.
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Choice bulls ready for service, by **CHERRY HILL LANDMARK**, 1946 Congress Reserve Champion. Good colors, pleasing quality. Reasonable. Farm 8 miles north of Elkader.
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Choice **Polled Shorthorn** bulls by **HIGHLAND ROBIN**, a son of Collynie Ensign, out of good cows. An old reliable herd. Reasonable.
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Choice quality, rich breeding. Reasonable.
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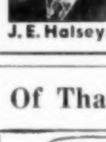

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HEREFORD BULLS
We have Polled Hereford bulls ready for service. They are good—see them!
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Choice Heifer Calves. Month old, from **Wisconsin's** selected high production cows. Also beautiful bred and open **Holstein** heifers.
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FREE "BREEDING GUERNSEY CATTLE"
SEND for valuable booklet on profitable Guernsey breeding. There's always a ready market for quality Guernsey offspring and an ever-increasing demand for premium-priced GOLDEN GUERNSEY MILK.
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HIGH GRADE COWS AND HEIFERS
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HOLSTEIN BULLS
Grandsons of Carnation and Posh breeding, serviceable age. You will like them.
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FEED BOW-KEY FEED
DES MOINES . . . . IOWA.

Tile Clogged Up?

Wet spots in level or near-level fields may mean "trouble spots" in your farm's tile system. In such areas, the tile may be clogged or broken, and need repairs.

Ben Muirhead, University of Illinois agricultural engineer, suggests keeping a close watch on tile outlets. The tiling system can't work without a clear outlet that will let the water get away fast.

Muirhead gives five requirements for a good drainage plan:

1. Have a licensed engineer survey your field and design your tile system. Get an accurate map of the field to be drained.
2. Plan a systm for the entire area—not just the wet spots. Use mains big enough to carry the load. Then you can add lateral tile as you need it.
3. Buy good tile that meets accepted standards. Ask to see a recent laboratory report on the tile you expect to buy.
4. Have your tile installed by a competent contractor who has a reputation for doing good work.
5. Maintain your tiling system. Keep your eyes open for trouble spots and fix them as they develop.

Stockyards Ranked

Rank of the nation's leading stockyards by 1947 volume has been determined by the Production Marketing Administration. They rank as follows:

Chicago—1 in cattle and hogs, 7 in sheep, 9 in calves.

South St. Paul—1 in calves, 4 in hogs, 6 in cattle, 8 in sheep.

Sioux City—4 in cattle, 5 in hogs, 12 in sheep.

Omaha—3 in cattle and hogs, 4 in sheep.

Kansas City—2 in cattle and sheep, 4 in horses and mules, 6 in calves.

St. Louis—2 in calves and hogs, 5 in cattle, 5 in horses and mules.

Fort Worth—3 in sheep, horses and mules, 4 in calves, 7 in cattle.

Denver—1 in sheep, 8 in cattle, 9 in hogs.

Ogden, Utah—1 in horses, 5 in sheep.

Polled Hereford Picnic

The Polled Hereford Association held its annual picnic at the farm of Fred Westcott, at Denison, Iowa, on Sunday, July 3, with a large gathering. Don Chittington was the chief speaker and gave a very interesting type demonstration. Lester Weise did a good job of judging the cattle. Among the men who passed with a perfect score were: Arthur Kewer, Ute; Mason Leonard, Waukee; J. H. Pullman, Sidney, and Jack Kelleher, Winterset. Harvey Skerritt, Malvern, was the winner of first place in the junior class. In the women's class, the following were all first prize winners: Mrs. Dan Rice, Dickens; Mrs. Dale Riggleman, Deloit; Mrs. Mason Leonard, Waukee, and Mrs. Orin Judson, Harcourt.

National Barrow Show

The kind of hog the consumer wants these days will be much in evidence at the 1949 National Barrow Show, at Austin, Minn., September 14-17.

Emphasis will be put on barrows of the intermediate type—neither too fat nor too rangy. A sizable share of the 3,000 entries is expected to fall in the 200-230 pound range.

Exhibits at the show also will be pointed toward the more desirable type of market hog. The USDA is preparing an exhibit of live hogs and carcasses to emphasize the superior value of the meat-type animal. Iowa State College's display will attempt to answer the question: "How heavy should I feed my hogs?" And University of Minnesota will present an exhibit showing how lardy hogs depress market prices.

Ak-Sar-Ben Dairy Show

For the first time in history, the 1949 4-H livestock show at Ak-Sar-Ben, in Omaha, Neb., will include dairy cattle exhibits.

The 4-H dairy show will bring together champion and first-prize winners from seven district dairy shows in Nebraska. It will be held September 30 and October 1, preceding the main show, which opens October 3 this year.

FEED BOLSON FEED *See the Difference!*

WISCONSIN'S CHOICE

Registered and non-registered Holstein, Brown Swiss, Guernsey heifer and bull calves. Also choice cows. Many from 500 lb. butterfat dams. Write or phone for prices and availability.
J. M. McFARLAND & SON
Watertown, Wisconsin

JERSEYS

JERSEY BULLS
Registered bull calves. Every calf from a good cow. Herd averaged 420 lbs. butterfat per cow for 13 years. Herd free T.B. and Bangs
J. J. NEWLIN
Polk County Johnston, Iowa

BERKSHIRES

BONNIE ACRES FARM
BERKSHIRE HOGS
HEREFORD CATTLE
Fall boars and bred gilts for sale. Would appreciate hearing from you.
TOM CONOVER HOLSTEIN, IOWA

DUROC JERSEYS

DUROC FALL BRED GILTS
15 Choice Registered Duroc fall gilts for August and September farrow. Excellent condition, weighing 350-400 lbs. Bred to Trans-mitter and Lucky Star. Immune. Write or come see them.
GREGOR F. VASKE & SON Dyersville, Iowa

MINNESOTA NO. 1 HOGS
MINNESOTA NO. 1—INBREDS
Choice Registered Boars ready for service. Also weanling pigs, either sex. Immune. Large average litters. "Our 1948 Spring and Fall litters weighed **230** lbs. and **240** lbs. at 160 days" and topped **MARKET** each time. You will like the cross.
J. B. MACKOY FARRAGUT, IOWA

Minnesota No. 1 & No. 2 Hogs
Select registered sows and gilts, bred for fall farrow. Reasonably priced. Inspection invited.
WILLIAMS BROS. FAIRFAX, IOWA
2 miles southeast.

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LIVESTOCK FOR SALE
Swine
Cross-line Poland China Boars.
Sheep
Yearling Shropshire and Hampshire Rams
Dairy Bulls
of the Ayrshire, Brown Swiss, Guernsey, Holstein and Jersey breeds.
ANIMAL HUSBANDRY DEPARTMENT
Iowa State College Ames, Iowa

TAMWORTHS

TAMWORTHS and YORKSHIRES
BRED GILTS . . .
OPEN GILTS . . .
and BOARS
DWAINE CLARK COLFAX, IOWA

TAMWORTH
PUREBRED TAMWORTHS have been bred for a lean meat carcass for more than **150** years. They make excellent cross on any other breed producing a smooth, fast growing, medium type, cross-bred. Tamworths are tops as mothers, and producers of choice lean meat and bacon. **FREE** information.
Tamworth Swine Assn., Box 189W, Hagerstown, Ind.

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GLENWOOD YORKSHIRES
Boost your hog profits with Glenwood **YORKSHIRES.** Prolific . . . fast growing . . . bacon type . . . profitable. Bred gilts and young boars for sale. Write for price and **FREE** illustrated booklet.
GLENWOOD SCHOOL FOR BOYS
Box D Glenwood, Illinois

YORKSHIRE HOGS
Registered Breeding Stock of all ages for sale.
PORTERS YORKSHIRE FARM
ELDRIDGE, IOWA
8 miles north of Davenport

PRINCE EDWARD ISLAND
YORKSHIRES
Choice breeding stock for sale at all times. Write Now
DR. W. J. HULS, 602 E. 15th, DAVENPORT, IA.

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YORKSHIRE HOGS
Champion carcass over all breeders 1948 National Barrow Show. Our herd won more Championships and firsts at Illinois, Ohio and Maryland State Fairs than all others combined. Write for illustrated circular.
YALEHURST YORKSHIRE FARM, Peoria, Ill.

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Choice Yorkshire bred sows and gilts to farrow middle of September. Also one Yorkshire fall boar.
EDWIN JOHNSON, JR.
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HAMPSHIRE RAMS
25 purebred yearling rams, 25 **Ram** lambs. Good ones. We bred and exhibited the only **ALL-AMERICAN Hampshire** Ram ever produced in Iowa. Also some purebred **DUROC** boars. Reasonable.
SUNSET KNOLL FARMS
Box 492
J. C. Holbert Washington, Iowa

Registered Hampshire and Suffolk
RAM AND EWE SALE
Fair Grounds
OSKALOOSA, IOWA, MON., AUG. 15
Consignment consists of our champion Hampshire Ewe of 1948 shows. Other ewes that are mothers of much of our 1949 show flock. Buy a ram now. We keep him at no extra cost until you are ready for him. We will breed any ewes purchased at no extra cost.
Beau Geste Farms, Oskaloosa, Iowa

SUFFOLKS & LINCOLN RAMS
Any age for sale. More mutton, more wool. Order now. Shipment made when wanted. Write or wire.
CRANDELL'S PRIZE STOCK FARMS
ITHACA, MICH.

SHEEP FARMING PROFITABLE
Feeding, breeding, management problems explained. Send Dollar bill trial subscription. (Monthly.)
SHEEP BREEDER MAGAZINE
Dept. 14 Columbia, Missouri

SUFFOLK SHEEP
Registered Ram and Ewe Lambs. Ewes from yearlings to 4 years old. Lambs sired by **BRIARDALE PRINCE 4Z,** 1947 Iowa grand champion, who produced a 200% lamb crop this year.
JOHN H. CARSTENS SMITHLAND, IOWA

DOGS

Notice—Unsatisfactory dogs must be returned within time specified by advertiser. Buyer always pays express charges (both ways if dog is returned) unless advertiser states in advertisement that he will do so.

GENUINE ENGLISH SHEPHERD PUPS
Guaranteed heelers. Year's trial, training instructions. Males, females or spayed females.
HIGHVIEW KENNELS, CEDAR FALLS, IOWA

BEST YET
ENGLISH SHEPHERD PUPS
Guaranteed to bring home the cows. Year's trial. Choice of sex. Spayed females a specialty. Priced right.
CLOVERDALE FARM ACKLEY, IOWA

Purebred Border Collies English Shepherds
America's most useful dogs. Puppies all ages. Both sexes. Choice colors. Faithful workers. Satisfaction guaranteed.
We breed and sell our own stock.
FAIRMOUNT FARMS - CEDAR FALLS, IOWA

SHEPHERDS, COLLIES
ENGLISH SHEPHERD, OR COLLIE PUPS for watch and stock. Also registered Scotch collies. Reasonable.
ZIMMERMAN FARMS FLANAGAN, ILL.

Shomont Collies
Workers—Companions—Guards. Write for free lists.
SHOMONT FARMS AND KENNELS
MONTICELLO IOWA

GENUINE ENGLISH SHEPHERD AND COLLIE PUPS
Guaranteed heel drivers (no fooling). Year's trial, training instructions. (50,000 satisfied customers.) Males — females — spayed females specialty. $15.00. (Distemper vaccinated.)
EMIL RUNFT REINBECK, IOWA

AIREDALES, COCKERS, RAT TERRIERS, FERRETS—AIREDALES, Reg. F. $20. **COCKERS,** Reg. F. $15, Male $20. **RAT TERRIERS,** F. $10, Male $15; **FERRETS,** Male or Female, $10. White or Brown. **COCKER-RAT TERRIER** Cross, Black Males $5.00.
Van Gorp Kennels & Mink Ranch, Pella, Iowa

ENGLISH SHEPHERD
PUPPIES
July prices. Guaranteed. Photos on request. Also Registered Dachshunds.
WALLACE WINEGAR BRANDON, IOWA

— OUR ADS ARE NEWS —

PAW TUCKER—"Paw Prepares For A Tour Of Th' Fairs"

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60 USEFUL HEREFORDS

EHF

IN OUR 2D

UNUSUAL SALE!

OREGON, ILLINOIS, SAT., SEPT. 10th

—60 FEMALES—

7 open, others with calf . . . forward in calf or both by

WHR JUPITER DOMINO 150TH

or

DOMINO WOODFORD

TWO GREAT SIRES

They have been siring—The Type you will like

QUALITY and UNIFORMITY

17 daughters of **DOMINO WOODFORD**, 6 with calves at side by **WHR JUPITER DOMINO 150th**.
25 daughters of **WHR JUPITER DOMINO 150th**, 8 with calves at side by **DOMINO WOODFORD**.
18 cows, 5 with calves at side by **WHR JUPITER DOMINO 150th**, 5 with calves at side by **DOMINO WOODFORD**.

All service by these

TWO GREAT SIRES

WHR JUPITER DOMINO 150th and DOMINO WOODFORD

Another feature of this

UNUSUAL SALE

30 Bulls in a supplementary sale, which includes many real herd bull prospects. Good type, excellent quality with merit.

THIS DOUBLE OFFERING PARTICULARLY ATTRACTIVE

to

HEREFORD BREEDERS

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Oregon, Illinois

EHF

Auctioneer, Jewett Fulkerson

Fieldman, J. E. Halsey

EHF

TWENTY-FIFTH ANNUAL

STOCKER AND FEEDER SALE

At our yards 10 miles north of Mason City

MANLY, IOWA, THURS., SEPT. 8th

2,000 HEAD All of these cattle are good quality range bred HEREFORDS. There will be STEERS, STEER CALVES, HEIFER CALVES and HEIFERS. Those who feed this year should make money. Guaranteed weights will be given on sale day. **COME!** Buy at your own price. The price is left entirely to farmers and cattlemen. Full details will appear in another issue.

OSWALD STRAND & SONS, MANLY, IOWA

Auctioneers: Ernie Weller, Dorsey, Sheimo and Frieberg J. E. Halsey, Fieldman

SPOTTED POLAND SALE!

At farm, 4½ miles north of

WEST LIBERTY, IOWA, WED., AUGUST 10th

Night Sale—7:30 P. M.

A grand lot of choice sows for our Summer Sow Sale. All daughters of **BRIGHT LAD**, a winner at Illinois and Indiana, and litter mate to Junior Champion gilt same show. He is a wonderful sire. They are bred to **LITTLE JOHN**, a son of Robin Hood; **FLASH** by Flashie Boy, reserve champion at Iowa in 1947, and **SIDE KICK**, a son of Magic Charm. You will like the quality and mated to great boars. **COME.** Ask now for **FREE** catalog. Kindly mention this publication.

ARTHUR BAILEY & SONS JIM & TOM **WEST LIBERTY, IOWA**

From where I sit ... *by* Joe Marsh

Don't Fence Yourself In

Every spring, Handy Peterson and Easy Roberts patch up the stone wall that separates their farms. They walk along talking—Easy on one side, Handy on the other—picking up the fallen stones and putting them back.

Afterwards, over a friendly glass of beer, Easy says, "Wall-mending is a nice neighborly custom, but we really don't need that wall. We keep it up just because it happens to be there."

"Yes," says Handy, "a lot of walls and fences keep on separating people for no good reason. Maybe we'd all be better off if some of them were torn down, instead of kept standing."

From where I sit, Handy said a mouthful. Take the "walls of intolerance" that people build up against each other. I like a temperate glass of beer now and then, you may prefer buttermilk—but that's no reason for me to criticize you, or you, me. Let's live and let-live *together* — making *more* friends and *fewer* "walls."

Joe Marsh

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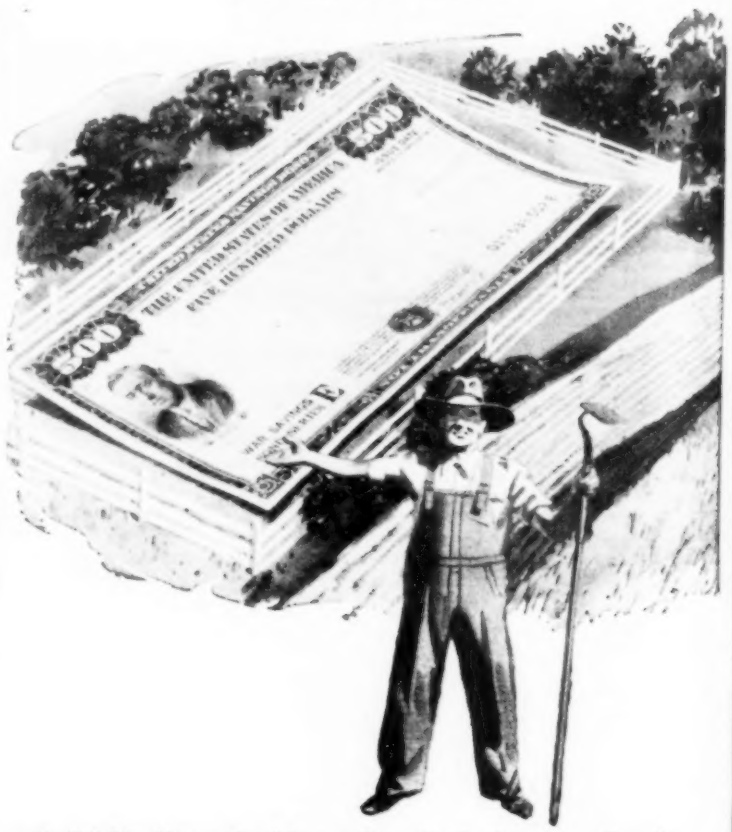
One Crop Nothing Can Ruin



Build Up Your Backlog—Buy U. S. Savings Bonds

THE WIGBYS

The Pioneers Didn't Know Real Trouble

Coming Livestock Sales

ABERDEEN ANGUS

Sept. 3—Good Earth Stock Farm, Joe Keshner, New Florence, Mo.
Sept. 6—Dispersion. Alvin Sunderman, Clarinda, Iowa.
Sept. 7—Dispersion. R. J. Teachout Estate, Shenandoah, Iowa. Mrs. R. J. Teachout, Admx.
Sept. 15—Dispersion. James W. Barkley, Lucerne, Mo.; sale at Unionville, Mo.
Sept. 19—Central Iowa Breeders, Marshalltown, Iowa; Clair G. Mason, Secy.
Sept. 21—Central Illinois Breeders, Congerville, Ill.; S. E. Lantz, Secy.
Sept. 22—Leslie Oliver, Williamsburg, Iowa; J. B. McCorkle, Mgr., 3710 A. I. U. Bldg., Columbus, Ohio.
Sept. 23—Floyd Grimm, Grand River, Iowa; sale at Mt. Ayr, Iowa.
Sept. 23—Dispersion. W. J. Hanson, Holbrook, Iowa; sale at Iowa City.
Sept. 24—Harrison County, Missouri, Angus Breeders, Harry Sheets, Mgr., Eagleville, Mo.; sale at Bethany, Mo.
Sept. 26—Wisconsin State Sale, Lancaster, Wis.; J. C. Perrin, Secy., Bloomington, Wis.
Sept. 30—Northeast Missouri Breeders, Memphis, Mo.; W. R. Dierks, Secy.
Oct. 1—H. Ward Benson, Milton, Iowa.
Oct. 8—Mercer County Breeders, Aledo, Ill.; Hugh McWhorter, Sale Mgr.
Oct. 10—Interstate Aberdeen Angus Assn. Sale, Sioux City, Iowa; P. K. Pratt, Secy. and Mgr., Walnut, Iowa.
Oct. 11—Botna Valley Angus Breeders Assn.; sale at Atlantic, Iowa; J. E. Andor, Mgr., Massena, Iowa.
Oct. 12—Dispersion Sale, Whittum & Herkelman, Stuart, Iowa.
Nov. 7—Dispersion. C. C. Pickrell & Sons, Chariton, Iowa.
Nov. 14—Archer, Catterson and Evans; sale at Maryville, Mo.; Leo Archer, Mgr., Conception Junction, Mo.

HEREFORDS

Sept. 10—Frayre Hereford Farms, Oregon, Ill.
Sept. 15—Denison Hereford Sale, Denison, Iowa; Harvey Johnson, Mgr., Exira, Iowa.
Sept. 21—J. E. Cirra, Cromwell, Iowa; sale at Creston, Iowa.
Sept. 28—Wiese Bros., Donahoe, Iowa.
Sept. 28—L. C. Larsen & Sons, Hamlin, Iowa; sale at Audubon, Iowa.
Oct. 1-5—Sioux City, Iowa, Hereford Cattle Breeders Show and Sale; F. W. Ketelsen, Secy., Eagle Grove, Iowa.
Oct. 8—T. G. Murray, Oxford Jct., Iowa.
Oct. 11—Bianchi Hereford Ranch, Macon, Mo.
Oct. 13—Creston Hereford Breeders, at Orient, Iowa; Lloyd H. Woods, Mgr., Creston, Iowa.

POLLED HEREFORDS

Oct. 13—Werner Hereford Farms, San Jose, Ill.
Oct. 26—Hervale Farms, Leland W. Herman, Wayne, Neb.

SHORTHORNS

Sept. 16—Earl Teesfield, Armstrong, Iowa.
Sept. 23—G. J. Schutjer, Woden, Iowa.
Sept. 21—Minnesota State Sale, Marshall, Minn.; V. T. Fosdahl, Mgr., Waterville, Minn.
Sept. 26—Southwest Iowa Breeders, Red Oak, Iowa; M. D. Lomas, Secy.
Sept. 27—Marshall County Breeders Assn., Marshalltown, Iowa; Geo. H. Lewis, R. 1, Mgr.
Sept. 29—Nicholas Cassens, Sigourney, Iowa.
Sept. 29—P. A. Rasmussen & Sons, Goldfield, Iowa; sale at Humboldt, Iowa; Merv Aegerter, Sale Mgr., Seward, Neb.
Sept. 30—Dispersion. Robert Wright, Carroll, Iowa; Merv Aegerter, Sale Mgr., Seward, Neb.
Oct. 1—Swanson Bros., Estherville, Iowa; Merv Aegerter, Sale Mgr., Seward, Neb.
Oct. 3—Northwest Missouri Breeders, Rockport, Mo.; James Meyer, Mgr., Maryville, Mo.
Oct. 7—Breeders Sale, Abingdon, Ill.; Hal Longley, Mgr., 16 S. Locust St., Aurora, Ill.
Oct. 12—Fred Rothlisberger & Son, Elgin, Iowa; S. Davis & Son, Wadena, Iowa, and Ted Whitford & Son, Volga, Iowa.
Oct. 19—American Royal Sale, Kansas City, Mo.
Oct. 25—Eastern Iowa Breeders, Cedar Rapids, Iowa; Albert J. Hamann, Mgr., Rock Rapids, Ia.
Oct. 26—Carl Retzlaff, Walton, Neb.; Merv Aegerter, Sale Mgr., Seward, Neb.
Nov. 12—Central States Sale, Oskaloosa, Iowa; C. E. Stewart, Mgr., Rose Hill, Iowa.
Dec. 2—W. P. Lorenzen, Pilot Mound, Iowa; sale at Ogden, Iowa; Merv. Aegerter, Sale Mgr., Seward, Neb.

POLLED SHORTHORNS

Oct. 4—Sioux Empire Show and Sale, Sioux Falls, S. D.; John F. White, Mgr.
Oct. 5—Iowa Polled Shorthorn Club, Inc., Show and Sale, Des Moines, Iowa; Earl S. Girton, Mgr., Box 282, Marshalltown, Iowa.
Oct. 6—Albert Hultine & Sons' 50th Anniversary Sale, Saronville, Neb.; sale at Lincoln, Neb.; Merv F. Aegerter, Sale Mgr., Seward, Neb.
Oct. 8—Illinois State Sale, Normal, Ill.; Hal Longley, Mgr., 16 S. Locust St., Aurora, Ill.
Oct. 24—Missouri State Sale, Sedalia, Mo.; Rollo Singleton, Secy., Columbia, Mo.

MILKING SHORTHORNS

Sept. 20—Iowa State Sale, Des Moines, Iowa; E. A. Mitchell, Secy., Reinbeck, Iowa.
Sept. 26—Dissolution Sale, Parkmoor Farms, Hooper, Neb.; sale at Fremont, Neb.

DAIRY CATTLE

Sept. 16—Iowa State Sale, Waterloo, Iowa (Jerseys); Ivan N. Gates, Sale Mgr., West Liberty, Iowa.
Sept. 20—Guernsey Dispersion, Nook-Dale Farm, Clive, Iowa; R. H. Petersen, Mgr.
Sept. 21—Twenty-third Annual Guernsey Sale, Wellman, Iowa; Truman Erb, Mgr.
Oct. 17—Iowa Holstein State Sale, Waterloo, Iowa; Dallas V. McGinnis, Secy., 912 Waterloo Bldg.
Oct. 21—Alfred Paper (Holstein Dispersion), Stockton, Iowa; sale at Davenport, Iowa; A. W. Petersen, Sale Mgr., Oconomowoc, Wis.
Oct. 31-Nov. 1—Maytag Farms, Newton, Iowa; Dispersion Sale at Des Moines, Iowa; A. W. Petersen, Sale Mgr., Oconomowoc, Wis.

FEEDER CATTLE

Sept. 8—Oswald Strand & Sons, Manly, Iowa.

CHESTER WHITES

Sept. 27—Dispersion. Henry Jurgensen, Olin, Iowa.
Oct. 5—Nick Terpstra & Sons, New Sharon, Iowa.
Oct. 10—Joe Madden, Maryville, Mo.
Oct. 14—R. A. Riemenschneider, Kingsley, Iowa.
Oct. 18—Night Sale. Westcott Bros., Denison, Iowa.
Oct. 21—C. T. Keen & Sons, Legrand, Iowa.

DUROC JERSEYS

Oct. 1—White Cap Farms, Verl Rinzzenberg, Mgr., Box 501, Storm Lake, Iowa.
Oct. 3—Night Sale. Carl Hebner, Goldfield, Ia.
Oct. 20—W. H. Helmke & Sons, Renwick, Iowa.

HAMPSHIRES

Oct. 9—Night Sale. Frantz Bros., Grand Junction, Iowa.

POLAND CHINAS

Oct. 7—Helgens Bros., Monticello, Iowa.

SPOTTED POLAND CHINAS

Aug. 16—Night Sale. Arthur Bailey & Sons, West Liberty, Iowa.
Sept. 27—Nelson & Paulsen, Blair, Neb.
Sept. 29—Night Sale. Nicholas Cassens, Sigourney, Iowa.
Oct. 8—F. L. Jackson & Sons, Lytton, Iowa; sale at Sac City, Iowa.
Oct. 8—Albert Kremer, Lake Lillian, Minn.
Oct. 12—A. J. Anderson & Sons, Kellogg, Iowa.

SHEEP

Aug. 15—Beau Geste Farms, Hampshire and Suffolk Sale, Oskaloosa, Iowa; Roy B. Warrick.

LIVESTOCK FIELDMEN

M. T. WHITE, 604 No. Fortieth St., Omaha, Nebraska. Phone Walnut 1056.
J. E. HALSEY, 1912 Grand Ave., Des Moines.
M. W. BONEY, Box 740, Storm Lake, Iowa; Phone 970 R.

We publish the FIRST and THIRD Saturday of every month. Copy for livestock advertising must reach our office FIFTEEN days before date of issue.

Around the Farm AND IN THE Feed Lot

by E. A. KELLOWAY

FARM VACATION TIME is here. August is the time when farm families can take a little "time out" for a trip, or for some fishing, or to take in the fairs, etc. Nobody deserves a vacation more than do farm people. The summer harvest is over. School and autumn work is still several weeks away. Livestock producers can't get away as easy as others, but arrangements can be made somehow—and even a few days' rest and relaxation helps a lot.

SECOND BROOD CORN BORERS are now coming up. Hatching activity by the late brood will start early in August. Farmers are urged to watch their late-planted fields closely, and to arrange for DDT spraying if egg masses appear in large numbers. Hot, dry August winds will also help knock the boring pests in the head. Estimates on damage done by the first brood borers run as high as a hundred million dollars—so let's not let the new brood add to the total.

NOW IS THE TIME of the year to really start pushing those spring pigs so as to get them on the earliest possible market. Walnut Grove Minerals can play a very important part in helping to give those pigs this push along with your home-grown grains. Some of our Walnut Grove users in Black Hawk county, Iowa, include Walter Connell, Edward Sorensen, Dave Mitchell, Loonan Bros., Fred A. Strayer, and Mark Branhorst. These customers receive their Walnut Grove and their service from our salesman in that territory, H. B. Lauterbach, of Reinbeck.

SUMMER'S HEAT has again been hard on egg quality. With more hot weather ahead, and with prices for top grade eggs likely to advance soon, it may be well to again consider ways to help keep the quality up. Recommended practices are: Gathering the eggs several times daily, cooling them in wire baskets before packing them into cases, providing circulation al around the cases, marketing several times a week.

THOSE SOWS breeding for fall pigs may need some special attention right at this time. It is a pretty good plan to look them over occasionally, and maybe step up that mineral balance. Walnut Grove Minerals will do this job in very fine shape. Some of our customers in Warren and Marion counties, Iowa, who believe in using Walnut Grove in all of their rations, include Kimsey Foust, Clarence Herald, Spain & Porter, C. A. Shober & Son, Frank Baughman, Lee Ripperger, and Ralph Houghtling. This position is in the hands of our representative in that territory, I. C. Calaway, of Indianola.

FARMERS FROM FOREIGN lands visited Iowa, Illinois and other states recently, observing crops, livestock and farming methods here in this country. Among the visitors was L. O. Scott, who operates 3000 acres along the equator, in Kanya, West Africa. Scott handles a large dairy herd, but he told of some other stock not so familiar to Americans. "Within a few miles of my home," Scott said, "you can see 15 to 20 lions playing around in the sun each afternoon. And," he added, "they won't hurt you if you don't bother them."

COUNTY AND DISTRICT fairs are now in progress. We hope all of you can manage to take time to visit at least one fair this year. County and district shows, like the State Fair, offer opportunities to see agriculture on display, and to observe the latest developments in machinery and home appliances, as well as in livestock and crops. Moreover, county fairs and achievement shows give the youngsters a chance to show their stock and their skills.

SWINE MANGE continues to take a heavy toll in hog profits. With this in mind, Walnut Grove Products Company has long been urging mange treatment, and now offers Wal-Gro-Dane 45, a new and highly effective treatment for Swine Mange. Tests made last year on some 800 infested animals, many with lesions in advanced stages, have given splendid results. In five lots, totaling 170 animals with mange in the advanced stage, irritation was relieved within a few hours after treatment with Wal-Gro-Dane 45. By the end of two weeks, the hogs were fast returning to excellent condition. On top of mange control, Wal-Gro-Dane 45 also gets the lice.

FARM OWNERSHIP received special recognition at Ames recently. The third annual "Achievement Day" was held for families who have paid off Farm Security Administration loans. Half the 1100 Iowa families making these loans have paid them off in full. The remaining 550 are well on the way to mortgage-free farms. John Holland, of near Milton, State FHA committee chairman, told the new land owners, "Farm ownership brings greater responsibility to the community and the soil, and adds up to a more permanent agriculture."

IT IS NOW a well-established fact that a little mineral added to a cattle ration saves feed. It can also play an important part in helping to keep animals in thrifty condition. Some of our customers in Grundy, Marshall and Tama counties, Iowa, who feed Walnut Grove in their feeding plans, include Frank Miller, Earl Murdock, Earl Miller, James Dostal, Roy Reese, William Ward, and Martin Gerke. Our long-time representative in that territory is L. T. Hibbs, of Albion, Iowa.

NATIONAL FARM SAFETY WEEK has re-emphasized the importance of every one being more careful around the farm and home, as well as on the highway. National Safety Council figures show one farm resident is injured or killed every 17 seconds. We all know of tragic or painful mishaps with tractors, cornpickers and other machinery, or with bulls or other livestock, right close to home. We need to make every week safety week on the farm.

WE HOPE YOU LIKE this one as well as we do. When the famous steel magnate, Charles Schwab, tried to buy a cow from a farmer neighbor, he asked, "Do you have registration papers, will she fit into my purebred herd, and will she produce well?" To this the neighbor replied he had no papers, and didn't know how well she would look in Schwab's fine herd. Then, as to production, he said, "No, I can't promise she'll give a lot of milk, but, Charlie, she's a nice, gentle, good-natured cow, and if she's got any milk she'll sure let you have it."

Livestock News

The Creston Hereford sale, at Orient, Iowa, on June 6, brought out a large crowd. The 33 bulls sold at an average of $333, and the 27 females averaged $229. Top price of the sale was paid for Bull No. 61, consigned by Harvey L. Rostad, Greenfield, Iowa. He was bought by Harry Saylor, Lorimor, Iowa, at $725. The 60 head made an average of $303 each. Col. Fred Chandler was the auctioneer.

The annual Shorthorn sale, Abingdon, Ill., June 17, "The Sale of Satisfied Buyers," under the able direction of Hal Longley, brought out a large attendance. It was a grand lot of cattle. Top bull, Susanna's Royal Leader, a son of Edellyn Royal Leader, was consigned by S. J. O'Bryan and sold for $1,000 to Osia Ropp, Gibson City, Iowa. Susanna Rosewood 6th, by Imp. Beaufort Brigand, and mated to Imp. Glastillich Spearhead, consigned by S. J. O'Bryan, was top female and sold at $700 to Walter Brugman, Walcott, Iowa. The 26 bulls averaged $449, with 31 females at $400, and the 57 lots sold for $24,045, an average of $422. They went to buyers in Iowa, Illinois, Missouri and Mississippi. Auctioneer, J. E. Halsey.

The Central Illinois annual June Angus sale, at Congerville, Ill., June 15, under the able direction of Simon E. Lantz, was most successful. The top bull, Eileenmere F. 46th, consigned by Fred Frye & Sons, Peoria, Ill., sold for $1,000 to Sam Meeker & Son, Manito, Ill. Blackcap Effie 8th, from the W. J. Krithfuss herd, was top female, going to W. G. Foster, Washington, Ill. The nine bulls averaged $560 each, with 63 females at $347.70 each and the 72 lots at a general average of $373.30. They went to buyers in four states, distributed as follows: Iowa 10, Wisconsin 8, Illinois 52 and Indiana 2. Auctioneers, Johnston and Sims.

Alcohol Gas

USDA Bureau of Agricultural and Industrial Chemistry researchers recently made two 1,000-mile truck trips to show the value of adding gasoline for a boost in motor performance.

In the first trip, the truck operated as well on 58-octane gasoline plus alcohol-water injection as it would on regular or 74-octane fuel.

In the second run, the truck was equipped with a high compression 8.25 to 1 head. Regular 74-octane gasoline plus alcohol-water was used. Considerable economy plus good performance was reported on both trips.

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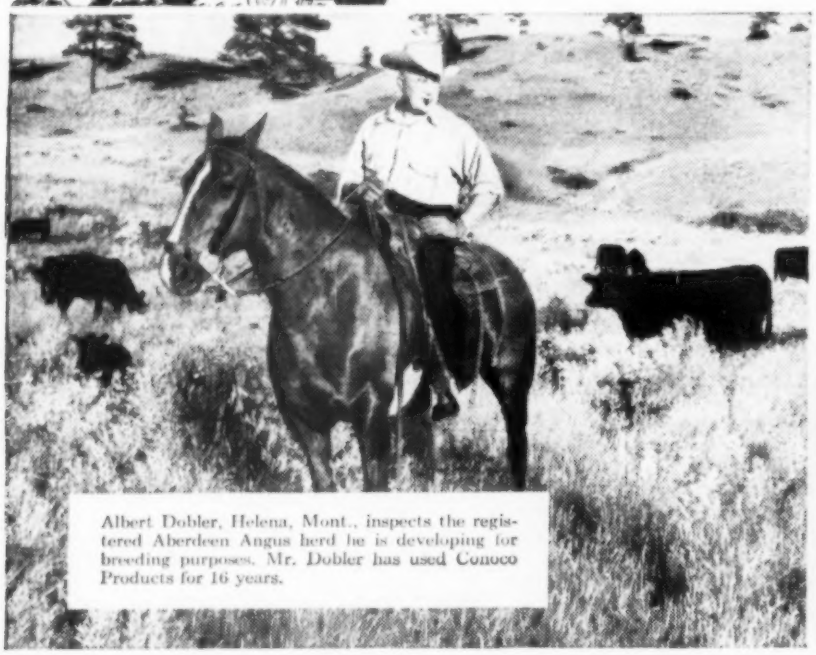
	Page
FARM BUILDINGS AND IMPROVEMENTS:	
Crib Plans	34
Furnace Facts	51
Gas Systems Literature	59
Grain Storage Literature	11, 19, 50, 53, 63, 64
Poultry Roost Information	60
Silo Information	67
Toilet Catalog	51
Water System Literature	58
FARM MACHINERY AND SUPPLIES:	
Blower Folder	43
Body and Hoist Catalog	36
Corn Harvester Literature	64
Crop Dryer Literature	49
Elevator Literature	29, 34, 48, 49, 53, 62
Farm Machinery Literature	44, 53
Flat Rack Wagon Bed Literature	64
Forage Cutting Machine Booklet	41, 43
Generator Details	60
Hammermill Folder	43
Hoist Literature	38, 49, 62
Hydraulic Scoop Literature	38
Livestock and Poultry Waterers Literature	20
Loader Information	34, 47
Mower Literature	29
Picker Folder	13, 30
Pump Literature	53
Rotary Scraper Literature	63
Saw Literature	63
Silage Distributor Information	52
Soil Mover Literature	42
Sprayer Literature	63
Tillage Combine Literature	32
Tractor Pump Folder	36
Wagon Unloader Information	65, 67
LIVESTOCK FEED AND REMEDIES:	
Feed Supplements Booklet	38
Feeding Program	50
Hay Raising Plan	35, 51
Mineral Feed Information	71
Nutritional and Disease Information	34
NURSERY AND SEEDS:	
Corn Booklet	17, 22, 40
MISCELLANEOUS:	
August Plowing Book	62
Business College Literature	58
Feed Mill Business Booklet	67
Fur Information	56
Leather and Canvas Goods Catalog	42
Quilt Exhibition Details	59
Rheumatism Booklet	38, 58

The Tank Truck



Albert Dobler, Helena, Mont., inspects the registered Aberdeen Angus herd he is developing for breeding purposes. Mr. Dobler has used Conoco Products for 16 years.

Theodore G. Dobler and his father look over their wheat, which made 50 bushels to the acre. Theodore has been active on the ranch since he returned from the Army Engineers.

Increases Farm Production 30%!

Albert Dobler has turned his 100-year-old Montana ranch practically into a food factory. By research, improvement and the use of the most modern equipment, Mr. Dobler has increased the production of his farm more than 30 per cent during the last 5 years!

Mr. Dobler has changed the method of cultivating his land. He now uses 2 10-foot Noble blade cultivators and his wheat crops are the envy of the region. He was the first in his territory to try weed control. He has a fully equipped shop that includes welding outfits, air compressor and the necessary machinery to do any kind of a farm job.

Mr. Dobler's efficient and business-like approach to farming gives importance to the following letter, written to J. W. Pavey, Conoco Agent, Helena:

"Dear Jim: I started to use Conoco lubricants 16 years ago, and to date I have not had a minute's trouble due to lubrication . . . .

"Other than a valve job on the 1939 tractor (it cost $9.30), I have had *no repair cost or other expense* . . . due to faulty lubrication . . . . The oil stays clean and doesn't thin out. You can see why I feel that *Conoco Nth Motor Oil and Conoco Greases have saved me a great deal of money and time* and why I recommend them highly."

Conoco Agent Pavey was, of course, happy to get a letter like this. It proves that the OIL-PLATING properties of Conoco Nth *really* save a farmer money, because Conoco Nth has an exclusive *extra* ingredient in it that protects cylinder walls against wear by fastening a special shield of lubricant right to them.

That's why OIL-PLATED engines last longer, perform better, are freer of breakdowns and use less oil. And Conoco Agent Pavey thinks Mr. Dobler's letter proves it! Don't you?

Nth Sets Fine Record!

Although still a young man, J. D. (Jake) Enninga, Peckham, has lived on an Oklahoma farm ever since there *was* a State of Oklahoma. He moved with his parents into the prosperous wheat belt the year the Sooner State was admitted to the Union. "I started using Conoco Products years ago," Mr. Enninga writes, "when my good friend Elmer Brown (Conoco Jobber) . . . convinced me that Conoco Nth Motor Oil was what I needed . . . When I purchased my new WC tractor 10 years ago, it had another oil in it. I noticed that after just a few hours' work, the oil level was down a quart, so I just drained it all out and put in Nth and it has never had anything else in it since. In the 10 years I have worn out 3 new sets of tires, but all the repairs it's had are one set of sleeves and pistons and 4 sets of rings. *I give Conoco Nth oil credit for this fine record.*"

★ ★ ★

YOUR CONOCO AGENT

Conoco Products are Tops!

"Conoco Products are TOPS," writes Carroll W. Day, Fremont, Nebr. "While I have not kept a 100 per cent record of *all* my costs, I do *know* my operations are *substantially less* than with other products I have used. I also have the satisfaction of knowing my equipment is satisfactorily lubricated with Conoco Nth Motor Oil and Conoco Greases, and that *it will perform for me when I really need performance!*" It's as plain as Mr. Day says it is—with Conoco Nth Motor Oil and Conoco Greases you get substantially less operating costs—dependable lubrication always.

Peanut Brittle!

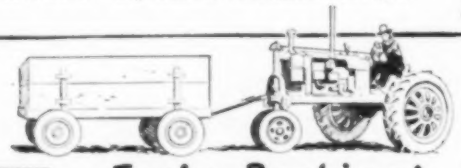
. . . by Mrs. Gayle Burger
Roy, New Mexico

3 cups sugar
1½ cups white syrup
1½ cups water
2 cups raw peanuts
1 T. butter
1 t. soda
1 t. vanilla

Stir sugar, syrup and water in deep kettle over hot fire until it boils. Cook until it cracks in cold water, then drop in peanuts and butter. Begin stirring on stove, continue until the peanuts smell roasted. Turn out gas and add soda and vanilla, mixed. Stir until blended. Turn out on buttered surface and pull out thin.

Send your favorite recipes to Mrs. Annie Lee Wheeler, Conoco Cafeteria, Ponca City, Oklahoma. A $7.50 pair of Wiss Pinking Shears awarded for every recipe published with your name. All recipes become property of Continental Oil Company.

FARM KITCHEN



Easier Backing!

To handle those 4-wheeled vehicles that are so hard to back up when hooked to the rear of a tractor, S. T. Moore, Long Pine, Nebr., uses a draw-bar hitch on the *front* of his tractor.

Windmill Cutoff!

When the storage tank is full, water runs through a hose from the overflow pipe into a bucket on the lever of the windmill. The full bucket pulls down the cut-off lever. From James H. Williamson, R. 3, Meridian, Tex.

CONOCO

PRIZES FOR IDEAS!

Send your original ideas to *The Tank Truck* in care of this paper—and get a genuine $8 D-15 Henry Disston Hand Saw for every idea that's printed!